

PROJECTION COLOR TELEVISION

Operating Guide for 51F710G and 57F710G

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As an Energy Star® Partner, Hitachi, Ltd. has determined that this product meets the Energy Star® guidelines for energy efficiency.

Important Safety Instructions



SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR HITACHI TELEVISION

Our reputation has been built on the quality, performance, and ease of service of **HITACHI** televisions.

Safety is also foremost in our minds in the design of these units. To help you operate these products properly, this section illustrates safety tips which will be of benefit to you. Please read it carefully and apply the knowledge you obtain from it to the proper operation of your **HITACHI** television.

Please fill out your warranty card and mail it to **HITACHI**. This will enable **HITACHI** to notify you promptly in the improbable event that a safety problem should be discovered in your product model.

Follow all warnings and instructions marked on this television.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of a sufficient magnitude to constitute a risk of electric shock to a person.



The exclamation point within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the

literature accompanying the appliance.

READ BEFORE OPERATING EQUIPMENT

Follow all warnings and instructions marked on this television.

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding

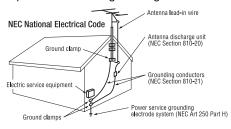
- prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use the attachments/accessories specified by the manufacturer.



Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use

caution when moving the cart/apparatus combination to avoid injury from tip-over.

- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. Televisions are designed to comply with the recommended safety standards for tilt and stability. Do not apply excessive pulling force to the front, or top, of the cabinet which could cause the product to overturn resulting in product damage and/or personal injury.
- 16. Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.
- An outdoor antenna should not be located in the vicinity of overhead power lines or other electrical circuits.
- 18. If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding for the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antennadischarge unit, connection to grounding electrodes and requirements for the grounding electrode.



Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-44 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Important Safety Instructions



Power source

This television is designed to operate on 120 volts 60 Hz, ac current. Insert the power cord into a 120 volt 60 Hz outlet. The power cord is used as the disconnect device and shall remain readily operable.

To prevent electric shock, do not use the television's (polarized) plug with an extension cord, receptacle, or other outlet unless the blades and ground terminal can be fully inserted to prevent blade exposure.

Never connect the television to 50 Hz, direct current, or anything other than the specified voltage.

Caution



Never remove the back cover of the television as this can expose you to very high voltages and other hazards. If the television does not operate properly,

unplug the television and call your authorized dealer or service center.

Caution

Adjust only those controls that are covered in the instructions, as improper changes or modifications not expressly approved by **HITACHI** could void the user's warranty.

Warning

- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- The television should not be exposed to dripping or splashing and objects filled with liquids, such as vases, should not be placed on the television.

Warning

- Do not place any objects on the top of the television which may fall or cause a child to climb to retrieve the objects.
- Projection TV's are heavy and can mark or damage floor surfaces (especially wood flooring) if moved improperly. Do not slide or force TV into position. Always roll TV allowing casters at bottom of unit to help steer and position the TV.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hitachi America, Ltd. Home Electronics Division may void the user's authority to operate the equipment.

Note

This television receiver will display television closed captioning, (,), in accordance with paragraph 15.119 and 15.122 of the FCC rules.

Public viewing of copyrighted material

Public viewing of programs broadcast by TV stations and cable companies, as well as programs from other sources, may require prior authorization from the broadcaster or owner of the video program material.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited consumer uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Note

This digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A CableCARD provided by your cable operator is required to view encrypted digital programming. Certain advanced and interactive digital cable services such as video-on-demand, a cable operator's enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information call your local cable company.

Note

- There are no user serviceable parts inside the television.
- Model and serial numbers are indicated on back side of the television.

Prevention of screen burn

This Wide Screen TV is designed to display wide screen pictures. Images should be viewed mostly in wide screen format or zoomed to fit the screen with moving pictures. Use of side panels, top and bottom panels of standard picture formats should only be 15% of your total viewing time to prevent uneven aging of the phosphors. Phosphors in the lighted area of the picture will age more rapidly than the gray areas. Continuous on-screen displays such as video games, stock market quotations, computer generated graphics, and other fixed (non-moving) patterns can cause permanent damage to television receivers. Such "SCREEN BURNS" constitute misuse and are NOT COVERED by your HITACHI Factory Warranty.

Lead Notice

This product contains lead. Dispose of this product in accordance with applicable environmental laws. For product recycling and disposal information, contact your local government agency or the Electronic Industries Alliance at **www.eiae.org** (in the US) or the Electronic Product Stewardship Canada at **www.epsc.ca** (in Canada).

FOR MORE INFORMATION, CALL 1-800-HITACHI.

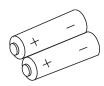
Accessories

Check to make sure you have the following accessories before disposing of the packing material.

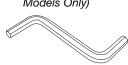
Remote Control



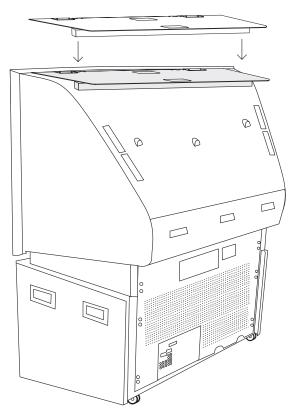
2 Two "AA" size, 1.5V batteries



"Z" Allen Key (For 57" Models Only)



Optional TV top shelf (not included, order separately. Model No. - SLF10; Part No. - QJ01611) For US models: For optional accessories, please access our website at www.hitachi.us/tv



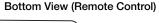


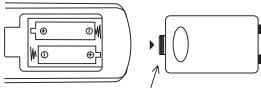
CAUTION: This SLF10 TV Top Shelf for use only with Hitachi 51F710G and 57F710G. Use with other apparatus is capable of resulting in instability causing possible injury.

- Remote Control Unit CLU-4341UG2 (Part No. HL02071) or CLU4351UG2 (Part No. HL02072).
- Two "AA" size, 1.5V batteries (For Remote Control Unit).
- "Z" Allen Key (Part No. 61010122).

REMOTE CONTROL BATTERY INSTALLATION AND REPLACEMENT

- 1. Open the battery cover of the remote control by pushing down and sliding the back cover off.
- 2. Insert two new "AA" size batteries for the remote control. When replacing old batteries, push them towards the springs and lift them out.
- 3. Match the batteries to the (+) and (-) marks in the battery compartment.
- 4. Insert the bottom of the battery, the (-) side, into the battery compartment first, push towards the springs and insert the top of the battery, the (+) side, into place. Do not force the battery into the battery compartment.
- 5. Replace the cover.





Lift up on tab to remove back cover.



CAUTION: Do not insert batteries with the "+" and "-" polarities reversed as this may cause the batteries to swell or rupture resulting in leakage.

How to set up your new HITACHI Projection Television

ANTENNA

Unless your TV is connected to a cable TV system or to a centralized antenna system, a good outdoor TV antenna is recommended for best performance. However, if you are located in an exceptionally good signal area that is free from interference and multiple image ghosts, an indoor antenna may be sufficient.

LOCATION

Select an area where sunlight or bright indoor illumination will not fall directly on the picture screen. Also, be sure that the location selected allows a free flow of air to and from the perforated back cover of the set. To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot, for example, in direct sunlight or near a heating appliance, etc.

NOTE: Your new **HDTV** has a built-in high definition television signal processor. This television includes a fan to cool the processor. The sound of moving air from the fan is normal and may be noticeable in very quiet environments.

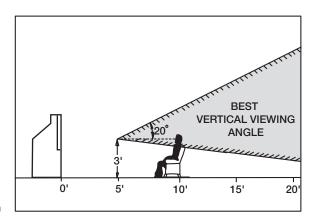
VIEWING

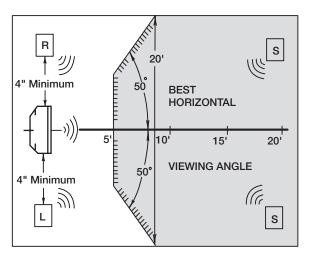
The major benefit of the **HITACHI** Projection Television is its large viewing screen. To see this large screen at its best, test various locations in the room to find the optimum spot for viewing.

The best picture is seen by sitting directly in front of the TV and about 10 to 18 feet from the screen. Picture brightness decreases as the viewer moves to the left and right of the receiver.

During daylight hours, reflections from outside light may appear on the screen. If so, drapes or screens can be used to reduce the reflection or the TV can be located in a different section of the room.

If the TV's audio output will be connected to a Hi-Fi system's external speakers, the best audio performance will be obtained by placing the speakers equidistant from each side of the receiver cabinet and as close as possible to the height of the picture screen center. For best stereo separation, place the external speakers at least four feet from the side of the TV, place the surround speakers to the side or behind the viewing area. Differences in room sizes and acoustical environments will require some experimentation with speaker placement for best performance.







CAUTION: Magnetic fields, such as those of external speakers, may cause the picture to distort if they are placed too close to the television. Move the magnetic field source away from the television until there is no picture distortion.

Hook-up Cables and Connectors

Most video/audio connections between components can be made with shielded video and audio cables that have phono connectors. For best performance, video cables should use 75-Ohm coaxial shielded wire. Cables can be purchased from most stores that sell audio/video products. Below are illustrations and names of common connectors. Before purchasing any cables, be sure of the output and input connector types required by the various components and the length of each cable.

300-Ohm Twin Lead Cable

This outdoor antenna cable must be connected to an antenna adapter (300-Ohm to 75-Ohm).

Phono Cable

Used on all standard video and audio cables which connect to inputs and outputs located on the television's rear jack panel and front control panel.

"F" Type 75-Ohm Coaxial Antenna Cable

For connecting RF signals (antenna or cable TV) to the antenna jack on the television.

S-Video (Super Video) Cable

This cable is used on camcorders, VCRs and laserdisc players with an S-Video feature in place of the standard video cable to produce a high quality picture.

Optical Cable

This cable is used to connect to an audio amplifier with an Optical Audio In jack. Use this cable for the best sound quality.

HDMI Cable

This cable is used to connect your external devices such as Set-Top-Boxes or DVD players equipped with an **HDMI** output connection to the TV's **HDMI** input.

ANTENNA CONNECTIONS TO REAR JACK PANEL

VHF (75-Ohm) antenna/CATV (Cable TV)

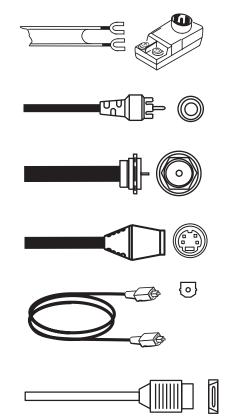
When using a 75-Ohm coaxial cable system, connect **CATV** coaxial cable to the **CABLE** (75-Ohm) terminal. If you have an antenna, connect the coaxial cable to the **AIR** terminal.

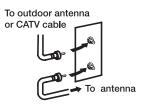
VHF (300-Ohm) antenna/UHF antenna

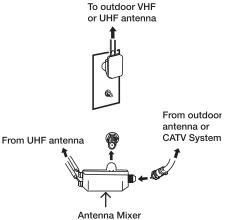
When using a 300-Ohm twin lead from an outdoor antenna, connect the **VHF** or **UHF** antenna leads to screws of the **VHF** or **UHF** adapter. Plug the adapter into the antenna terminal on the TV.

When both VHF and UHF antennas are connected

Attach an optional antenna cable mixer to the TV antenna terminal, and connect the cables to the antenna mixer. Consult your dealer or service store for the antenna mixer.

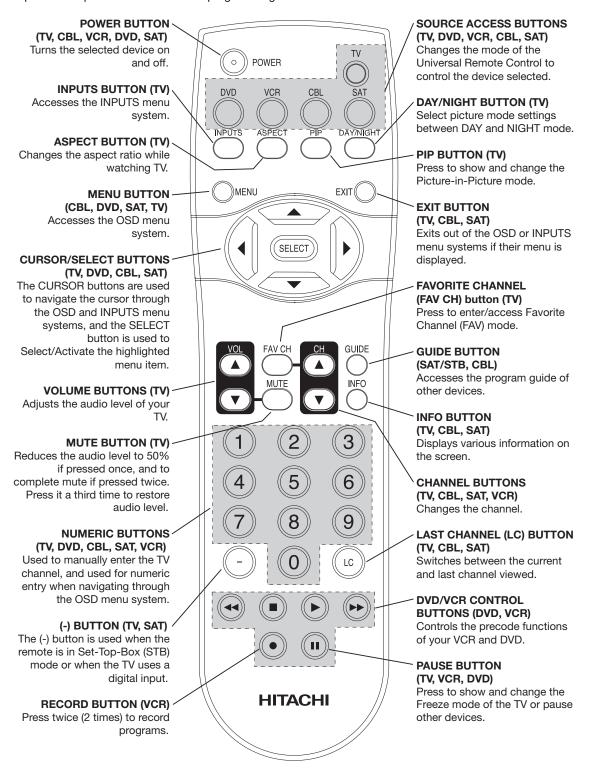






Quick Reference Remote Control Buttons and Functions

In addition to controlling all of the functions on your HITACHI Projection TV, the new remote control is designed to operate different types of devices, such as, DVD Players, CBL (Cable Boxes), set-top-boxes, satellite receivers, and VCRs. The remote control must be programmed to control the chosen device. Please see page 18-29 for a complete description of all features and programming of the Remote Control.



LEGEND

TV - Television

VCR - Video Cassette Recorder/Player

CBL - Cable Box

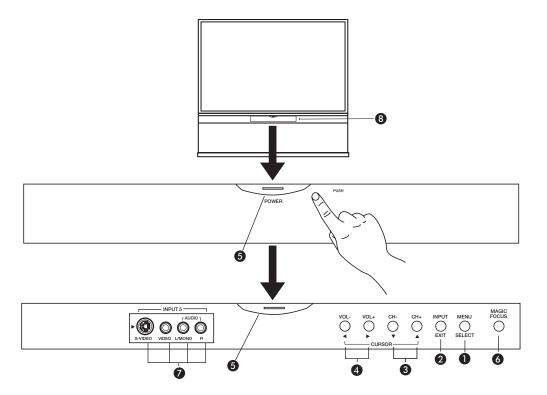
STB - Set-Top-Box

DVD - Digital Video Disc Player

SAT - Satellite Receiver

NOTE: STB precode is included in the SAT mode.

Front Panel Controls



⋒ MENU/SELECT button

This button allows you to enter the **MENU**, making it possible to set TV features to your preference without using the remote. This button also serves as the **SELECT** button when in **MENU** mode.

② INPUT/EXIT button

Press this button to display the input menu, CABLE, AIR, INPUT: 1, 2, 3, 4 and 5. This button also serves as the EXIT button when in MENU mode.

3 CHANNEL selector

Press these buttons until the desired channel appears in the top right corner of the TV screen. These buttons also serve as the cursor down (▼) and up (▲) buttons when in **MENU** mode.

VOLUME level

Press these buttons for your desired sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left (◄) and right (►) buttons when in **MENU** mode. When the TV power is turned OFF at a volume level 31 or greater, the volume level will default to 30 when the TV is turned ON. However, if it is set to a level 30 or less, the volume level will be at the level it was set when the TV is turned ON.

6 POWER button/ POWER LED

Press this button to turn the TV on or off. This LED light is on during normal operation. At initial TV turn on, the TV cannot receive any button or Remote Control signals for approximately five seconds while the internal programming is loading. This is a normal default operation of this television and is an energy saving feature. You can choose not to use this feature by selecting **ON** for the **QUICK START UP** option in the On Screen Display Menu. Select **SETUP** in the On Screen Display Menu, then select **QUICK START UP**. Select the **ON** feature to quickly tune and view channels at initial TV turn on (see page 55).

6 MAGIC FOCUS

Use this button to automatically adjust your picture quality to optimum performance (see page 48).

7 FRONT INPUT JACKS (INPUT 5)

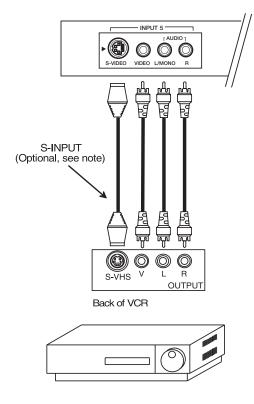
Use these audio/video jacks for a quick hook-up from a camcorder or VCR to instantly view your favorite show or new recording. Press the **INPUT** button and select **INPUT 5**. If you have mono sound, insert the audio cable into the left audio jack.

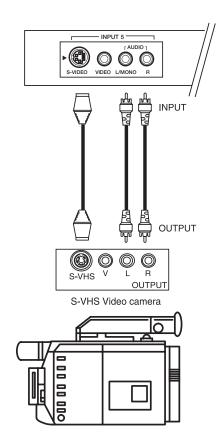
3 IR RECEIVER Sensor

Point the remote control at this area when selecting channels, adjusting volume, etc.

Front Panel Jacks and Connections

The front panel jacks are provided as a convenience to allow you to easily connect a camcorder or VCR as shown in the following examples:





- **NOTE:** 1. Completely insert connection cord plugs when connecting to front panel jacks. If you do not, the played back picture may be abnormal.
 - 2. If you have a S-VHS VCR, use the S-INPUT cable in place of the standard video cable.
 - 3. If you have a mono VCR, insert the audio cable into the left audio jack of your TV.

Rear Panel Connections

Antenna Input

CABLE – A 75-Ohm RF antenna or **CATV** (Cable TV) input.

AIR - A 75-Ohm RF antenna input.

NOTE: You may ask your local cable company whether DTV services are available.

2 Audio/Video INPUTS 1, 2, 3 and 4

By using the **INPUTS** button, **CURSOR** buttons and **SELECT** button of the remote control you can select each video source. Use the audio and video inputs to connect external devices, such as VCRs, camcorders, laserdisc players, DVD players etc. (If you have mono sound, insert the audio cable into the left audio jack.)

NOTE: You may use VIDEO or S-VIDEO inputs to connect to INPUT 1 and 2, but only one of these inputs may be used at a time.

Monitor Out

These jacks provide fixed or variable audio and video signals which are used for recording. Use the S-Video Output for high quality video output (see page 63).

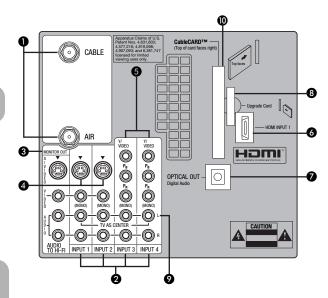
S-Video INPUTS 1 and 2

INPUTS 1 and **2** provide S-Video (Super Video) jacks for connecting equipment with S-Video output capability.

Component: Y-PBPR INPUTS

INPUTS 3 and 4 provide Y-PBPR jacks for connecting equipment with this capability, such as a DVD player or Set Top Box. You may use composite video signal for both inputs.

- NOTE: 1. Do not connect composite VIDEO and S-VIDEO to INPUT 1, 2 or 5 at the same time. S-VIDEO has priority over VIDEO input.
 - 2. Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's PB input and the components R-Y output to the TV's PR input.
 - 3. Your component outputs may be labeled Y-CBCR. In this case, connect the component CB output to the TV's PB input and the component CR output to the TV's PR input.
 - 4. It may be necessary to adjust **TINT** to obtain optimum picture quality when using the Y-P_BP_R inputs (see page 32).
 - To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PBPR jacks.
 - INPUT 3 and INPUT 4 (Y/VIDEO) can be used for composite video and component video input.



HDMI1 (High Definition Multimedia Interface) (INPUT 1)

ABOUT HDMI – HDMI is the
next-generation all digital interface for consumer
electronics. HDMI enables the secure distribution
of high-definition video and multi-channel audio in
a single cable. Because digital television (DTV)
signals remain in digital format, HDMI assures that
pristine high-definition images retain the highest
video quality from the source all the way to your
television screen.

Use the **HDMI** input for your external devices such as Set-Top-Boxes or DVD players equipped with an **HDMI** output connection.

HDMI, the **HDMI** logo and High-Definition Multimedia Interface are trademarks or registered trademarks of **HDMI** Licensing LLC.

- **NOTE:** 1. The **HDMI** input is not intended for use with personal computers.
 - Only DTV formats such as 1080i, 720p, 480i and 480p are available for HDMI input.

Optical Out (Digital Audio)

This jack provides Digital Audio Output for your audio device that is Dolby® Digital and PCM compatible, such as an audio amplifier.

Manufactured under license from Dolby Laboratories. "**DOLBY**" and the **DOUBLE-D** symbol are trademarks of Dolby Laboratories.

Our Upgrade Card

This card slot is for future software upgrades. Hitachi will notify you if a software upgrade is required for your TV. In order to receive written notification, please complete and return your warranty card.

Rear Panel Connections

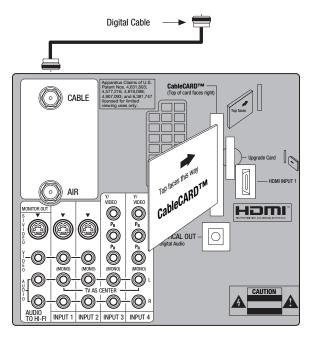
② TV AS CENTER (INPUTS 1-4)

These jacks are for stereo amplifiers with center signal output capability. This feature allows the TV speakers to be used as a center speaker. The TV must be set as a center channel by selecting **TV AS CENTER** on the Internal Speakers Settings of the Audio Menu (see page 36).

CableCARD Slot

This slot is for the CableCARD that will be provided by your local cable operator to gain access to chosen cable channels. The CableCARD will allow you to tune digital and high definition cable channels. Please call your local cable operator if this service is available before requesting a CableCARD (also known as Point of Deployment (POD) module).

- Connect a coaxial cable to cable terminal of the Rear Panel Jacks.
- 2. Insert the CableCARD into the slot (Top of card should be facing right as shown below).



NOTE: 1. A digital cable subscription is required.

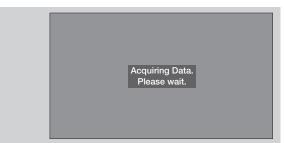
- 2. Do not insert a PCMCIA card into the CableCARD slot.
- Please see Appendix on page 64 for additional CableCARD information.

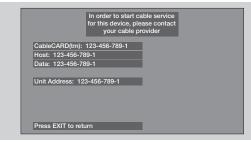
If the CableCARD is properly installed or not installed, the TV will display the following respective screens.





After the CableCARD is installed, wait until the second screen below appears. The third screen below will appear if a channel is not authorized for viewing. Press the **EXIT** button to exit the second screen.





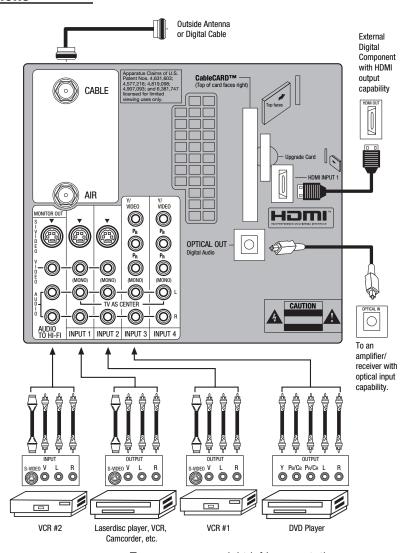


NOTE: Please see of all information on the screen (you will provide this information to your cable operator). Call your cable operator and give them the information from the card to start your cable service.

Rear Panel Connections

TIPS ON REAR PANEL CONNECTIONS

- S-VIDEO, Y-PBPR and HDMI connections are provided for high performance laserdisc players, VCRs etc. that have this feature. Use these connections in place of the standard video connection if your device has this feature.
- If your device has only one audio output (mono sound), connect it to the left audio jack on the television.
- Refer to the operating guide of your other electronic equipment for additional information on connecting your hook-up cables.
- A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output (INPUT 1 in the example on this page). Refer to your VCR operating guide for more information on line input-output connections.
- You may use VIDEO or S-VIDEO inputs to connect to INPUT 1, INPUT 2 or INPUT 5, but only one of these may be used at a time.
- Connect only one component (VCR, DVD player, camcorder, etc.) to each input jack.
- COMPONENT: Y-PBPR (INPUT 3 and INPUT 4)
 connections are provided for high performance
 components, such as DVD players and set-topboxes. Use these connections in place of the
 standard video connection if your device has this
 feature. INPUT 3 accepts both composite and
 component video signals.
- Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's PB input and the components R-Y output to the TV's PB input.
- Your component outputs may be labeled Y-CBCR.
 In this case, connect the components CB output to the TV's PB input and the components CR output to the TV's PR input.
- You may use composite and component video signals for INPUT 3 and INPUT 4.
- It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-PBPR inputs (see page 32).



- To ensure no copyright infringement, the MONITOR OUT output may be abnormal, when using the Y-PBPR jacks.
- When using an HDMI input from a Set-Top-Box, it is recommended that a 1080i or 720p input signal is used.

NOTE: 1. Connect only one component to each input jack.

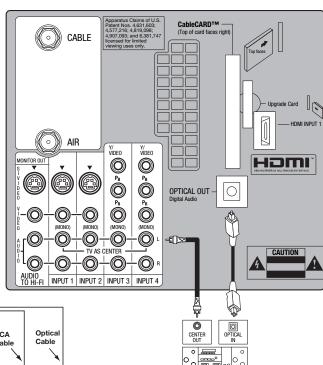
- 2. Follow connections that pertain to your personal entertainment system.
- 3. INPUT 3 and INPUT 4 can accommodate Composite and Component video signals.
- Cables are not included with the purchase of this TV, except when noted as "provided".

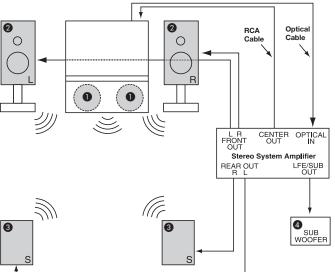
MACROVISION NOTES:

- Video signals fed through a VCR may be affected by copyright protection systems and the picture will be distorted on the television.
- 2. Connecting the television directly to the Audio /Video output of a Set-Top-Box will assure a more normal picture.

Match the numbers below to the diagram for speaker placement.

- The television's internal speakers will act as center speaker (select AUDIO INTERNAL SPEAKERS TV AS CENTER).
- These FRONT left and right speakers are connected to the FRONT output of a separate audio amplifier.
- These REAR left and right speakers are connected to the Rear output of a separate audio amplifier.
- This subwoofer is connected to the LFE/SUB Out output of a separate audio amplifier.





- NOTE: 1. The Optical Out (Digital Audio) provides a fixed digital audio output to your external component such as an A/V receiver with optical input capability. The audio level can only be controlled through the volume control of the external audio amplifier.
 - 2. See page 37 for AUDIO-Digital Output.

The exact arrangement you use to connect the VCR, camcorder, laserdisc player, DVD player, or HDTV Set Top Box to your TV set is dependent on the model and features of each component. Check the owner's manual of each component for the location of video and audio inputs and outputs.

The following connection diagrams are offered as suggestions. However, you may need to modify them to accommodate your particular assortment of components and features. For best performance, video and audio cables should be made from coaxial shielded wire.

BEFORE OPERATING EXTERNAL VIDEO SOURCE

Connect an external source to the INPUT terminal, then press the INPUTS button to show the INPUTS menu. Use the CURSOR PAD to select the CABLE, AIR or INPUT of your choice. Then press the SELECT button to confirm your choice (see page 21).

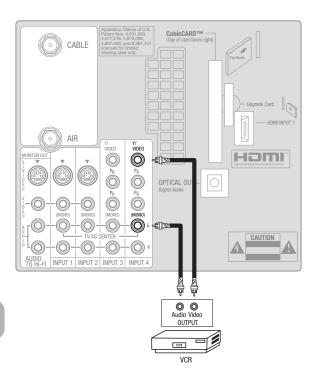
NOTE: When the TV is set to VIDEO and a video signal is not received from the VIDEO INPUT JACK on the back panel of the TV (i.e., VCR/laserdisc player, etc. is not connected or the video device is OFF), the set will appear to be OFF.



CONNECTING A COMPOSITE VIDEO AND A MONAURAL AUDIO SOURCE TO INPUT1 - INPUT5

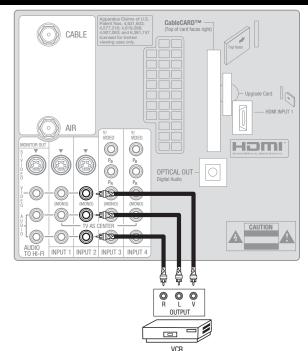
- Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the TV to the right.
- Connect the cable from the AUDIO OUT of the VCR or the laserdisc player to the INPUT (MONO)/L(AUDIO) jack.
- Press the INPUTS button, then select INPUT 4
 from the INPUTS menu to view the program from
 the VCR or the laserdisc player. The VIDEO OSD
 label disappears automatically after approximately
 four seconds.
- Select CABLE from the INPUTS menu to return to the last channel tuned.

NOTE: INPUT 3 can be used in the same manner as INPUT 4.



CONNECTING A COMPOSITE VIDEO AND A STEREO AUDIO SOURCE TO INPUT1 - INPUT5

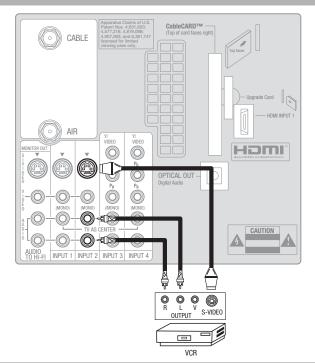
- Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the TV to the right.
- Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.
- Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack.
- Press the INPUTS button, then select INPUT 2
 from the INPUTS menu to view the program from
 the VCR or laserdisc player. The VIDEO OSD label
 disappears automatically after approximately four
 seconds.
- Select CABLE from the INPUTS menu to return to the last channel tuned.



- **NOTE:** 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
 - A single VCR can be used for VCR #1 and VCR #2 (see page 12), but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line inputoutput connections.
 - When INPUT 3 or 4 are used, it is necessary to connect the video output from the device to the Y-VIDEO INPUT jack of the TV.

CONNECTING AN S-VIDEO AND STEREO SOURCE TO INPUT 1, 2 AND 5

- 1. Connect the cable from the S-VIDEO OUT of the VCR or the laserdisc player to the INPUT (S-VIDEO) jack, as shown on the TV to the right.
- Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.
- Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack.
- Press the INPUTS button, then select INPUT 2
 from the INPUTS menu to view the program from
 the VCR or laserdisc player. The VIDEO OSD label
 disappears automatically after approximately four
 seconds.
- Select CABLE from the INPUTS menu to return to the last channel tuned.

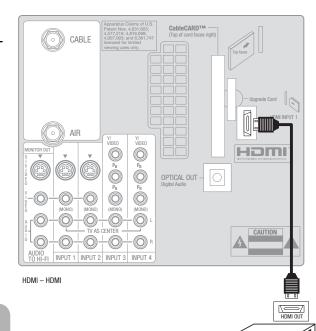


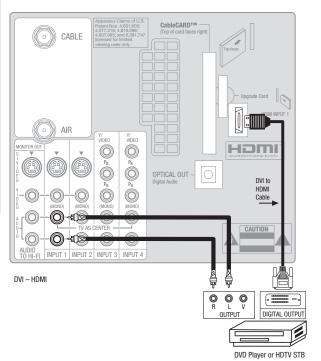
- **NOTE:** 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
 - A single VCR can be used for VCR #1 and VCR #2 (see page 12), but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line inputoutput connections.

CONNECTING A COMPONENT SOURCE WITH HDMI OR DVI CAPABILITY TO INPUT 1

- Connect the HDMI or DVI to HDMI connection cable from the output of the HDTV set top box or DVD player to the HDMI input as shown on the TV to the right. When using a component with DVI output, you also have to connect the AUDIO OUT (R/L) of the component to the AUDIO IN (R/L) of INPUT 1.
- Press the INPUTS button, then select INPUT 1
 from the INPUTS menu to view the program from
 the HDTV set top box or DVD player. The VIDEO
 OSD label disappears automatically after
 approximately four seconds.
- Select CABLE from the INPUTS menu to return to the last channel tuned.
- **NOTE:** 1. Completely insert the connection cord plugs when connecting to rear panel jacks.

 The picture and sound that is played back will be abnormal if the connection is loose.
 - The HDMI input on INPUT 1 contains the copy protection system called Highbandwidth Digital Content Protection (HDCP). HDCP is a cryptographic system that encrypts video signals when using HDMI connections to prevent illegal copying of video contents.
 - 3. HDMI is not a "NETWORK" technology. It establishes a one-way point-to-point connection for delivery of uncompressed video to a display.
 - The connected digital output device controls the HDMI interface so proper set-up of device user settings determines final video appearance.



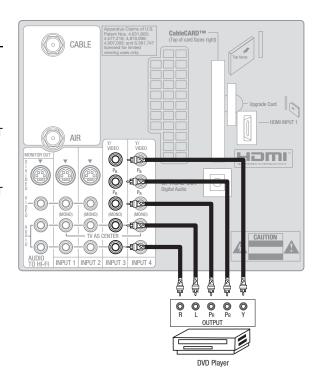


DVD Player or HDTV STB

CONNECTING A COMPONENT AND AN AUDIO SOURCE TO INPUT 3 OR 4: Y-PBPR.

- Connect the cable from the Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (Y) jack, as shown on the TV to the right.
- Connect the cable from the CB/PB OUT or B-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (PB) jack.
- Connect the cable from the CR/PR OUT or R-Y OUT of the laserdisc/DVD player or HDTV set top box to the INPUT (PR) jack.
- Connect the cable from the AUDIO OUT R of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/R) jack.
- Connect the cable from the AUDIO OUT L of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/L) jack.
- Press the the INPUTS button, then select INPUT 3
 from the INPUTS menu to view the program from
 the Laserdisc/DVD player or HDTV set top box. The
 VIDEO OSD label disappears automatically after
 approximately four seconds.
- 7. Select **CABLE** from the **INPUTS** menu to return to the last channel tuned.
- NOTE: 1. Completely insert the connection cord plugs when connecting to rear panel jacks.

 The picture and sound that is played back will be abnormal if the connection is loose.
 - 2. See page 12 for tips on REAR PANEL CONNECTIONS.



The Remote Control

In addition to controlling all the functions on your **HITACHI** Projection TV, the new remote control is designed to operate different types of VCRs, CATV (Cable TV) converters, set-top-boxes, satellite receivers (SAT) and DVD players with one touch. Basic operation keys are grouped together in one area.

To operate your TV, point the remote control at the screen of the TV and press the **TV** button. The remote will now control your television.

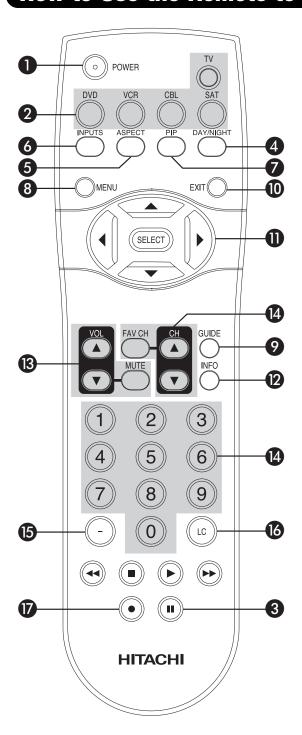
To operate your VCR, point the remote at the remote sensor of the VCR and press the **VCR** button. The remote will now control your VCR (see page 29 for instructions on how to program the remote to control your VCR).

To operate your cable box, point the remote at the remote sensor of the cable box and press the **CABLE** (CBL) button. The remote will now control your cable box (see page 26 for instructions on how to program the remote to control your cable box).

To operate your set-top-box or satellite receiver, point the remote at the remote sensor of the set-top-box or satellite receiver and press the **SAT** button. The remote will now control your set-top-box or satellite receiver. If you have a satellite receiver, use this button to program your satellite receiver (see page 27 for instructions on how to program the remote to control your SAT).

To operate your DVD player, point the remote at the remote sensor of the DVD player and press the **DVD** button. The remote will now control your DVD player (see page 28 for instruction on how to program the remote to control your DVD player).





POWER button

Press this button to turn the TV set on or off when the remote is in TV mode. (See page 20 for instructions on how to set the remote control to TV mode.)

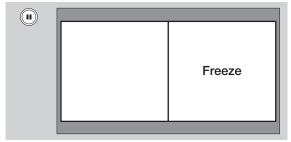
MODE buttons

These buttons allow the remote to control your TV, VCR, DVD, Cable box/Satellite box depending on which button is pressed.

PAUSE button

Press the **PAUSE** button to freeze the picture. Press the **EXIT** button to return the picture to motion. Press the **PAUSE** button repeatedly to cycle through the three different freeze modes (see page 24).







4 DAY/NIGHT button

Press this button to toggle between Day and Night picture mode settings. Select **DAY** for day time viewing with more brightness and contrast to compete with room light. Select **NIGHT** for night time viewing with less brightness and contrast for a more detailed picture (see page 32 for settings changes).

ASPECT button

Press this button to quickly change the picture format ASPECT ratio. Depending on the input signal format received, the picture format ratio allows you to adjust the images through the following options.

4:3 STANDARD

Use this aspect mode to display conventional (4:3) images. Side panels (gray areas) are placed to the left and right of the image to preserve the original aspect ratio of the source. Note: Use this mode for only 15% of your total viewing time to prevent uneven aging of the phosphors. Phosphors in the lighted area of the picture will age more rapidly than the gray areas.

4:3 EXPANDED

Use this aspect mode to display conventional (4:3) sources by linearly increasing image expansion from the center towards the edges of the display area in order to fill it.

4:3 ZOOM1/ZOOM2

Use these aspect modes to zoom in on conventional (4:3) sources.

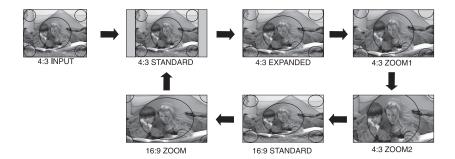
16:9 STANDARD

Use this aspect mode to display 16:9 sources like HDTV and DVD's preserving the original 16:9 aspect ratio.

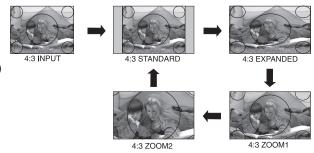
16:9 **ZOOM**

Use this aspect to Zoom-in once while in 16:9 aspect.

- Antenna-Analog
- S-Video/Video Input (Auto Aspect: Off)
- HDMI-480i/480p Input (Auto Aspect: Off)
- Component-480i/480p Input (Auto Aspect: Off)



- Antenna-Digital (4:3)
- S-Video/Video 4:3 Letter Input (Auto Aspect: On)
- HDMI-480i/480p 4:3/ Letter Input (Auto Aspect: On)
- Component-480i/480p 4:3 **Letter Input** (Auto Aspect: On)

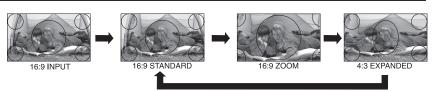


- S-Video/Video 16:9 Input (Auto Aspect: On)
- HDMI-480i/480p 16:9 Input (Auto Aspect: On)
- Component-480i/480p 16:9 Input

(Auto Aspect: On)



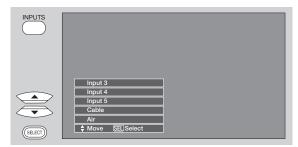
- Antenna-Digital (16:9)
- HDMI-720p/1080i Input
- Component-720p/1080i Input



- NOTE: 1. The Aspect Style setting you select for an ANT input will automatically be set for the other ANT input. However, all five video inputs have independent Aspect Style settings.
 - 2. Vertical position adjustments are directly available when you choose 4:3 EXPANDED/ZOOM1/ZOOM2 or 16:9 ZOOM aspect style (see also page 33).

6 INPUTS button

When the remote control is in TV mode, press this button to access the **INPUTS** menu. Use the **CURSOR** and **SELECT** buttons to scroll and select the inputs that are being used. Pressing the **INPUTS** button repeatedly will also cycle through the Inputs menu items. Then press the **SELECT** button to select.



INPUT 1	Select to choose Input 1.
INPUT 2	Select to choose Input 2.
INPUT 3	Select to choose Input 3.
INPUT 4	Select to choose Input 4.
INPUT 5	Select to choose Input 5.
CABLE	Select to choose Cable.
AIR	Select to choose Air.

PICTURE-IN-PICTURE button

See separate section on pages 23-25 for a description.

MENU button

The MENU button will start the On-Screen Display.

Q GUIDE button [Cable Box (CBL), Satellite Receiver (SAT)/ Set-Top-Box (STB) mode only]

The use of this button is only applicable when the remote control is in (CBL) and (SAT/STB) mode. Press this button to access the Channel Guide of the (CBL), and (SAT/STB).

EXIT button

This button will exit all On-Screen Displays.

① CURSOR buttons/SELECT button

All the On-Screen Display features can be set or adjusted by using the **CURSOR** buttons and the **SELECT** button, except for numeric entries. Press the **CURSOR** buttons toward desired direction and press the **SELECT** button to select.

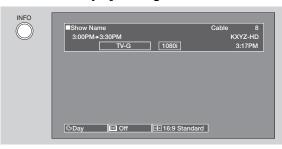
INFO button

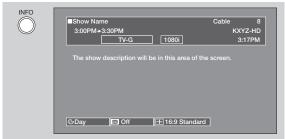
Press this button when you want to check the channel being received, the picture source, if the channel has stereo (ST) or second audio program (SA), the time, CHANNEL ID and if the TIMER is set.

INFO button display for Analog Channels

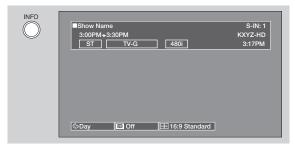


INFO button display for Digital Channels

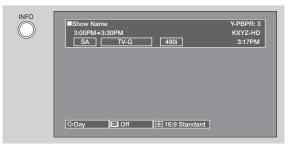




INFO button display when an S-VIDEO Input is connected to INPUT 1



INFO button display for when a COMPONENT VIDEO: Y-PBPR Input is connected to INPUT 3



NOTE: 1. Press the **INFO** button again or the **EXIT** button to return to normal viewing.

The ASPECT INFORMATION will show the aspect condition of a channel before it is blocked.

® VOLUME (VOL), MUTE button

Press the **VOLUME** button (▲ or ▼) until you obtain the desired sound level.

To reduce the sound to one half of normal volume (SOFT MUTE) to answer the telephone, etc., press the **MUTE** button. Press the **MUTE** button again to turn the sound off completely (MUTE). To restore the sound, press the **MUTE** button one more time, or **VOL UP** (**A**).







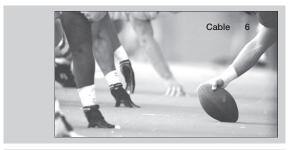
Closed Captioning will display automatically when MUTE/SOFT MUTE is on and Closed Caption is set to **AUTO** (see page 53).

When the TV power is turned off at a volume level 31 or greater, the volume level will default to 30 when the TV is turned on. However, if it is set to a level 30 or less, the volume level will be at the level it was set when the TV is turned on.

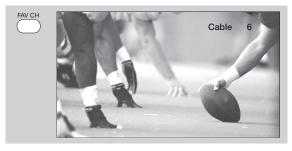
CHANNEL SELECTOR/FAVORITE CHANNEL (FAV CH) buttons

The **CHANNEL SELECTOR** buttons are used to select channels, lock access code, etc. Use the **CHANNEL SELECTOR** buttons to enter one, two, or three numbers to select channels. Enter **0** first for channels **1** to **9**, or simply press the single digit channel you wish to tune then wait a few seconds for the TV to tune. Channel selection may also be performed by **CHANNEL (CH) UP** (▲) or **CHANNEL (CH) DOWN** (▼).

Press the **FAV CH** button to switch to Favorite (FAV) channel mode. You will know you are in Favorite Channel mode when (FAV) is displayed and the displayed channel is **GREEN**. Press it again to return to your regular tuned channels. You can add any channel to your Favorite channel list by pressing and holding down the **FAV CH** button until the displayed channel turns from **WHITE** to highlighted **GREEN**. You can also delete a channel from your favorite channel list by pressing and holding down the **FAV CH** button until the displayed channel turns highlighted **GREEN** to **WHITE**.







(3) (-) DASH button

The (-) **DASH** button can only be used when the remote control is in Satellite (SAT) mode.

(B) LAST CHANNEL (LC) button

Press this button to toggle between the current and last channel viewed.

® RECORD button

Press twice (two times) to record programs when the remote is in VCR mode.

Picture-in-Picture (PIP)

Your HITACHI Projection TV incorporates Two Tuner technology designed for improved viewing enjoyment. This Two Tuner feature allows you to view antenna inputs on both the main picture and sub-picture simultaneously, with separate tuning control for each. When a DIGITAL channel is viewed as the main picture, a DIGITAL channel can not be viewed as a sub picture. When an ANALOG channel or INPUT is viewed as the main picture, an ANALOG channel or INPUT can not be viewed as a sub picture.

To select between main picture and PIP sub-picture tuning, use the **CURSOR** buttons on the remote. The green highlighted channel display will move with every press of the **CURSOR** buttons (◀ or ▶).

The Picture-in-Picture feature is convenient when you want to watch more than one program at the same time. You can watch a TV program while viewing other programs from any of the video inputs.

Use the connection diagram to the right to view VCR program as a sub-picture while viewing another program as main picture (CABLE or AIR). You may also view the VCR program as a main picture while viewing another program as a sub-picture (CABLE or AIR).

When installing a CableCARD, connect your coaxial cable to **CABLE** (see page 11).

PIP button

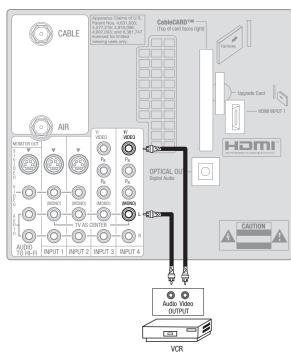
Press the **PIP** button and a sub-picture will appear in one of the four different modes (**POP**, **PIP**, **SPLIT** or **SURF**), depending on the INPUT signal. To change the PIP mode, use the **PIP** button to cycle through the four different modes.

POP Mode Picture-in-Picture

POP MODE PIP displays the sub-picture outside of the main picture. Use the **CURSOR** buttons (▲ or ▼) to move the sub-picture. This feature is not available with a Digital 16:9, 720p and 1080i signal. Please refer to the Picture-in-Picture Modes Table (see page 24).



- **NOTE:** 1. Press the **CURSOR** buttons (◀ or ▶) to enable the sub-picture sound.
 - 2. Sub-picture channel availability depends on the channel list.
 - 3. Two INPUTS cannot be viewed simultaneously in PIP MODE. Only one INPUT (1-5) and one antenna (CABLE OR AIR).





Picture-in-Picture (PIP)

PIP Mode Picture-in-Picture

This feature is only available with a Digital 16:9, 720p and 1080i signal. To prevent a pattern burn, occasionally move the sub-picture using the **CURSOR** buttons.





SPLIT Mode Picture-in-Picture

Split Mode PIP displays the main picture and subpicture evenly on the screen.



SURF Mode Picture-in-Picture

Surf Mode PIP automatically scans all active channels (those set in memory) and displays them as PIP sub-pictures or Thumbnail channels. Press the **SELECT** button to stop on a chosen channel. Use the remote **CURSOR** buttons (\blacktriangleleft , \blacktriangleright , \blacktriangle , \blacktriangledown) to navigate the Thumbnail. Press the **EXIT** button to enable your chosen channel and return to normal viewing.



- **NOTE:** 1. Press the SELECT button to stop the Surf mode or channel scan. Press the SELECT button again to resume Surf mode or channel scan.
 - SURF Mode Picture-In-Picture will not be available when the Movie/TV ratings lock functions are activated.

Picture-in-Picture (PIP) Modes 480p/480i							
PIP	Main/		Ant. I	Digital	1080i/ 720p		Analog S-Video
Mode	Sub	Aspect	16:9	4:3	16:9	16:9	4:3
POP	ANT Digital	4:3	_	_	Yes	Yes	Yes
	480p/480i	16:9	Yes1	Yes1	_	_	_
	ANT Analog	4:3	Yes	Yes	_	_	_
	S-Video/Video						
PIP	ANT Digital	16:9	_	_	_	Yes1	Yes
4:3	1080i/720p	16:9	_	Yes	_	_	_
	480p/480i	16:9	_	Yes²	_	_	-
	S-Video/Video						
PIP	ANT Digital	16:9	_	_	Yes	Yes ²	-
16:9	1080i/720p	16:9	Yes	_	_	_	-
	480p/480i	16:9	Yes ²	_	_	_	_
	S-Video/Video						
SPLIT	ANT Digital	16:9	_	_	Yes	Yes	Yes
		4:3	_	_	Yes	Yes	Yes
	1080i/720p	16:9	Yes	Yes	-	_	-
	480p/480i	16:9	Yes	Yes	_	_	-
	ANT Analog	4:3	Yes	Yes	_	_	_
	S-Video/Video						
SURF	-	_	Yes	Yes	_	_	Yes³
12 PIX							

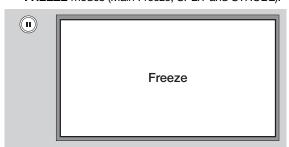
Yes¹ = Auto Aspect Off; Yes² = Auto Aspect On;

Yes³ = Only available in Analog Tuner

Picture-in-Picture (PIP)

PAUSE button

If you wish to freeze the sub-picture, press the **PAUSE** button. This is convenient when trying to write down the address for a mail order company, recording statistics for a sporting event, etc. To return the picture to motion, press the **EXIT** button. Press the **PAUSE** button repeatedly to toggle between **FREEZE** modes (Main Freeze, SPLIT and STROBE).







MAIN FREEZE

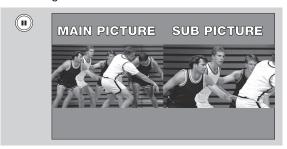
Press the **PAUSE** button to freeze one frame of the picture you are currently viewing and the frozen frame will show in the Main Picture. Press the **EXIT** button to return to normal viewing. This feature is useful for freezing a picture frame with addresses.





SPLIT FREEZE

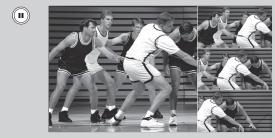
Press the **PAUSE** button to freeze the picture you are currently viewing (only the right sub-picture will freeze). Press the **EXIT** button to return to normal viewing.





STROBE FREEZE

Press the **PAUSE** button to freeze three frames of the picture you are currently viewing (only the 3 sub-pictures will freeze). Press the **EXIT** button to return to normal viewing. This feature is useful for viewing a moving picture that has many details, for example, a close play in a sporting event or a golf swing.





NOTE: 1. The default FREEZE mode is the MAIN freeze followed by the SPLIT freeze and then the STROBE freeze. The last Freeze mode you selected before you pressed the EXIT button will be the one that comes up after pressing the PAUSE button again.

2. Each freeze frame is delayed about 0.1 (1/10) second.

The Remote Control for Cable Box Functions

OPERATING THE PRECODED FUNCTION FOR YOUR CABLE BOX.

This remote is designed to operate different types of cable boxes. You must first program the remote to match the remote system of your cable box (refer below for pre-codes).

- 1. Turn **ON** your cable box.
- Aim the remote control at the front of your cable box.
- To switch to Cable (CBL) pre-coded mode, press and release the CABLE (CBL) button.
- Hold down the CBL button on the remote and enter the two digit preset code that matches your cable box, as shown below. Release the CBL button.
- 5. Aim the remote at the cable box and press the POWER button. The remote will turn off your cable box when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your cable box. If the cable box does not turn off, try a different two digit preset code.
- 6. The remote will now control your Cable box.
- **NOTE:** 1. If your cable box cannot be operated after performing the above procedures, your cable box code has not been precoded into the remote.
 - 2. In the unlikely event that your cable box cannot be operated after performing the above procedures, please consult your cable box operating guide.
 - 3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

• CABLE (CBL) button

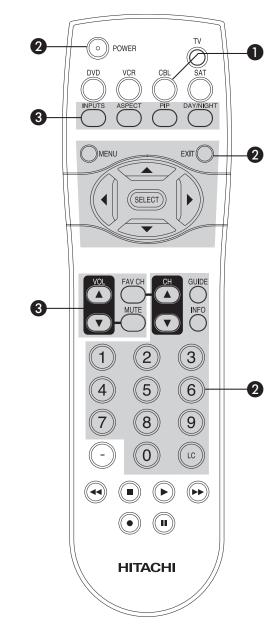
This button allows the remote to control your cable box by setting it to CABLE mode.

PRECODED CABLE BOX buttons

These buttons transmit the chosen precoded cable codes.

3 EXCLUSIVE TV buttons

These buttons are for operating the TV.



CABLE BRAND	CODES
HAMLIN	22, 23, 24, 25
JERROLD	. 00, 01, 02, 03, 04, 05, 06, 07
OAK	26, 27, 28
PANASONIC	18, 19, 20
PIONEER	13, 14
SCIENTIFIC ATLANTA	08, 09, 10
TOCOM	15, 16
ZENITH	11, 12

MY CABLE BOX CODE IS:

NOTE: Refer to instruction manual of the Cable Box for operation of the buttons exclusively for the Cable Box.

The Remote Control for Set-Top Box/Satelite Receiver Functions

OPERATING THE PRECODED FUNCTION FOR YOUR SET-TOP-BOX/SATELLITE RECEIVER.

This remote is designed to operate different types of set-top-box/satellite systems. You must first program the remote to match the remote system of your set-top-box/satellite systems (refer below for pre-codes).

- 1. Turn **ON** your set-top-box/satellite systems.
- Aim the remote control at the front of your set-topbox/satellite systems.
- To switch to set-top-box/satellite (STB) pre-coded mode, press and release the SAT button.
- Hold down the SAT button on the remote and enter the two digit preset code that matches your settop-box/satellite receiver, as shown below. Release the SAT button.
- 5. Aim the remote at the set-top-box/satellite receiver and press the **POWER** button. The remote will turn off your set-top-box/satellite receiver when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your set-top-box/satellite receiver. If the set-topbox/satellite receiver does not turn off, try a different two digit preset code.
- The remote will now control your set-topbox/satellite receiver.

NOTE: 1. If your set-top-box/satellite receiver cannot be operated after performing the above procedures, your set-top-box/satellite receiver code has not been precoded into the remote.

- In the unlikely event that your set-topbox/satellite receiver cannot be operated after performing the above procedures, please consult your set-top-box/satellite receiver operating guide.
- 3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

• SAT (Set-Top-Box/Satellite) button

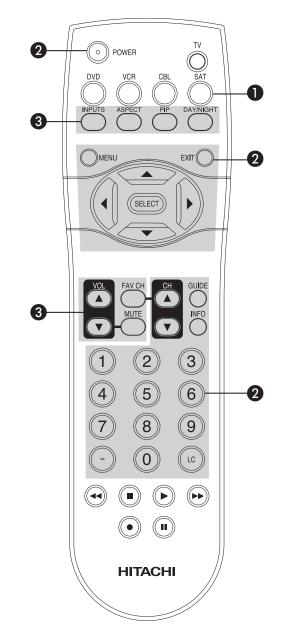
This button allows the remote to control your settop-box/satellite receiver by setting it to SET-TOP-BOX/SATELLITE mode.

② PRE-CODED SET-TOP-BOX/SATELLITE RECEIVER buttons

These buttons transmit the chosen pre-coded settop-box/satellite codes.

3 EXCLUSIVE TV buttons

These buttons are for operating the TV.



SATELLITE BRAND	CODES
ECOSTAR	03
HITACHI	00
HUGHES	04
RCA	01
SONY	02

SET TOP BOX BRAND	CODES
PANASONIC	05
RCA	06
SAMSUNG	07
ZENITH	08

MY SATELLITE RECEIVER/ SET TOP BOX CODE IS:

NOTE: Refer to instruction manual of the set-topbox/satellite receiver for operation of the buttons exclusively for the set-topbox/satellite receiver.

The Remote Control for DVD Functions

OPERATING THE PRECODED FUNCTION FOR YOUR DVD PLAYER.

This remote is designed to operate different types of DVD players. You must first program the remote to match the remote system of your DVD player (refer below for pre-codes).

- 1. Turn ON your DVD player.
- Aim the remote control at the front of your DVD player.
- To switch to DVD pre-coded mode, press and release the **DVD** button.
- Hold down the **DVD** button on the remote and enter the two digit preset code that matches your DVD player, as shown below. Release the **DVD** button.
- 5. Aim the remote at the DVD player and press the POWER button. The remote will turn off your DVD player when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your DVD player. If the DVD player does not turn off, try a different two digit preset code.
- 6. The remote will now control your DVD player.
- You will need to set the display type of your DVD player to 16:9 WIDESCREEN.
- **NOTE:** 1. If your DVD player cannot be operated after performing the above procedures, your DVD player's code has not been precoded into the remote.
 - 2. In the unlikely event that your DVD player cannot be operated after performing the above procedures, please consult your DVD player operating guide.
 - 3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

DVD button

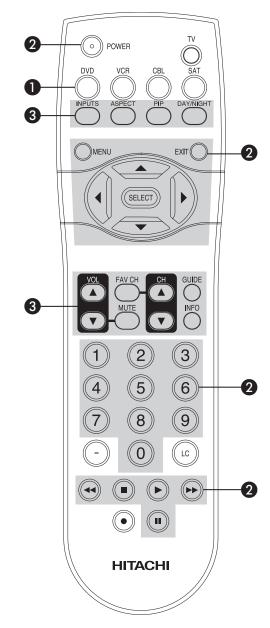
This button allows the remote to control your DVD player by setting it to DVD mode.

PRECODED DVD Buttons

These buttons transmit the chosen precoded DVD codes.

② EXCLUSIVE TV Buttons

These buttons are for operating the TV.



DVD BRAND	CODES
APEX	10
GO VIDEO	09
HITACHI	00
KENWOOD	11
PANASONIC	02
PIONEER	
RCA	
SAMSUNG	
SANYO	07
SONY	
TOSHIBA	05

NOTE: Refer to instruction manual of the DVD player for operation of the buttons exclusively for the DVD player.

MY DVD PLAYER CODE IS:

The Remote Control for VCR Functions

OPERATING THE PRECODED FUNCTION FOR YOUR VCR.

This remote is designed to operate different types of VCRs. You must first program the remote to match the remote system of your VCR (refer below for pre-codes).

- 1. Turn **ON** your VCR.
- 2. Aim the remote control at the front of your VCR.
- To switch to VCR pre-coded mode, press and release the VCR button.
- Hold down the VCR button on the remote and enter the two digit preset code that matches your VCR, as shown below. Release the VCR button.
- 5. Aim the remote at the VCR and press the **POWER** button. The remote will turn off your VCR when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your VCR. If the VCR does not turn off, try a different two digit preset code.
- 6. The remote will now control your VCR.

NOTE: 1. If your VCR cannot be operated after performing the above procedures, your VCR's code has not been precoded into the remote.

- 2. In the unlikely event that your VCR cannot be operated after performing the above procedures, please consult your VCR operating guide.
- 3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
- 4. Press the Record button twice to record.

VCR button

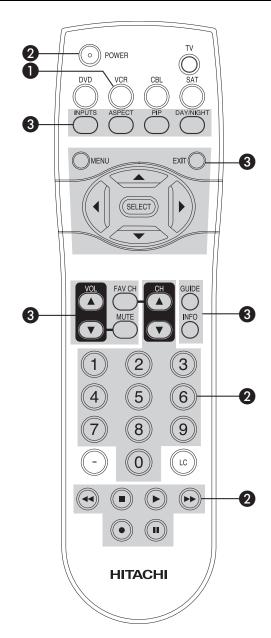
This button allows the remote to control your VCR player by setting it to VCR mode.

2 PRECODED VCR Buttons

These buttons transmit the chosen precoded VCR codes.

EXCLUSIVE TV Buttons

These buttons are for operating the TV.



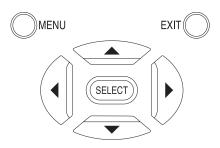
VCR BRAND	CODES
EMERSON	20, 21, 22, 23 ,24
FISHER	34, 37, 38, 39
HITACHI	00, 01, 02, 03, 04, 05, 06
JVC	49, 50, 51
MAGNAVOX	12, 13
MITSUBISHI	
NEC	40, 41
PANASONIC	10, 11
SAMSUNG	25, 26
SHARP	31, 32
SONY	07, 08, 09

MY VCR PLAYER CODE IS:

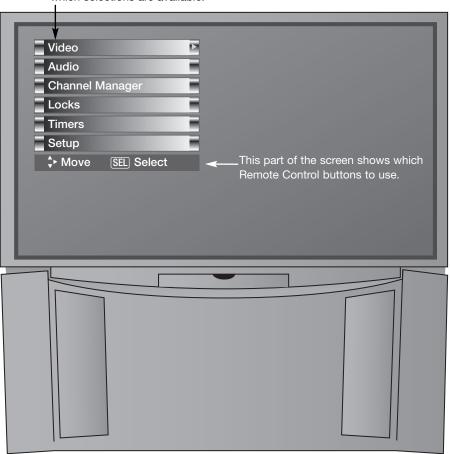
NOTE: Refer to instruction manual of the VCR for operation of the buttons exclusively for the VCR.

On-Screen Display

- Press MENU on the remote control to display the different features on your HITACHI Projection TV.
- Press the CURSOR buttons to navigate and highlight a different feature of the On-Screen Display menu. Press the SELECT button to select.
- 3. Press **EXIT** on the remote control to quickly exit from a menu.



This part of the screen shows which selections are available.



On-Screen Display

Video	\checkmark
Picture Mode	Select between the two picture
Contrast	modes; Day and Night. Adjust contrast.
	•
Brightness Color	Adjust brightness. Adjust color.
Tint	· · · · · · · · · · · · · · · · · · ·
	Adjust tint.
Sharpness	Adjust sharpness.
Color Temperature	Set this to High for less intense
	color with more blue, set to
	Medium for natural color, set to
	Standard for standard colors or
	Black and White for more
	reddish color.
Black Enhancement	Enhance picture brightness in
	light scenes.
Edge Enhancement	Automatically enhances the
	edges between light and dark
	areas.
Noise Reduction	Reduces conspicuous noise in
	the picture.
Aspect	Choose the picture format
	aspect ratio.
Black Side Panel	Set the gray side bars on/off
	when watching 4:3 signals in
	standard mode.
Virtual HD	Select between 1080i and 540p
	Scan mode.
Reset Video Settings	Choose the Reset Video
	settings.

Audio	∇
Treble	Adjust the treble.
Bass	Adjust the bass.
Balance	Adjust the balance.
SRS	Select SRS settings (Off, Wide,
	Normal)
BBE	Select BBE settings (Off, Soft,
	Hard)
Audio Source	Select between three Audio
	Sources.
Internal Speakers	Select internal or external
	speakers.
Auto Noise Cancel	Eliminates the noise between
	stations.
Perfect Volume	Adjust volume in fixed setting.
Loudness	Adjust Loudness.
Language	Select Language options if
	available.
Digital Output	Select Optical Output options.
DRC	Select Dynamic Range
	Compression to ON or OFF.

_ Chamile ivi	ariagei
Signal Meter	Access Signal Meter.
Auto Channel Scan	Set Auto Channel Scan.
Channel List	Set Channel List.
Locks	$\overline{\lor}$
Change Access Code	Change Lock access code.
Engage Lock	Choose to lock channel or
	front panel.
Movie Ratings	Block various types of movies
	and video types based on
	motion picture ratings.
TV Ratings	Block various types of movies
	and television programming
	based on a parental guide
	ratings.
Canadian Ratings (ENG)	• •
	and television programming
	based on the Canadian ratings system.
Canadian Ratings (FRN)	Block various types of movies
	and television programming
	based on the Canadian French
	ratings system.

Channel Manager

Timers	$\overline{\lor}$
Set the Clock	Set Clock Settings.
Set Sleep Timer	Set Sleep Timer intervals
	(30 min. intervals, 00:30-3:00).
Set Day/Night Timer	Set Day/Night picture mode
	settings.
Set Event Timer	Set viewing reservation for TV
	programs.

Setup	∇
Magic Focus Tune Up	Automatic and manual
	alignment of the red, green and
	blue colors to make white.
Menu Preference	Choose English, French, or
	Spanish text.
Set The Inputs	Label Video Inputs, VCR, DVD,
	etc.
Set Closed Captions	Feature to display dialogue/text
Set Monitor Out	Set Monitor Out source.
Upgrades	Select to upgrade TV software.
Quick Start Up	Select the TV Quick Start Up
	options.

NOTE: 1. The Language, Digital Output, and the Dynamic Range Compression feature of the Audio OSD are only available for Digital channels.

- 2. The Signal Meter feature of the Channel Manager OSD is only available for Digital signals.
- 3. The CableCARD information feature of the Setup OSD is only available when a CableCARD from your cable operator is installed in the rear panel of the TV.

Video

Video

Select VIDEO to adjust picture settings and improve picture quality. You can independently customize each of the Video Inputs to your preference to increase viewing performance and pleasure depending upon the video program being viewed. If RESET is selected, only the selected input will reset to initial conditions.

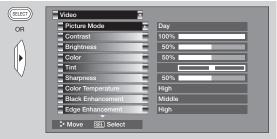
Picture Mode

Use this function to choose from automatic picture settings to optimize your TV's performance.

- Use the CURSOR buttons ◀ or ▶ to highlight and select PICTURE MODE settings.
- Press EXIT to quit menu or select PICTURE MODE to return to previous menu.

Function	Day	Night
Contrast	100%	70%
Brightness	50%	55%
Color	50%	50%
Tint	50%	50%
Sharpness	50%	40%
Color Temperature	High	Standard
Black Enhancement	Middle	Low
Edge Enhancement	High	Low
Noise Reduction	Off	Off
Black Side Panel	Off	Off
Virtual HD	1080i	1080i







- 1. Use the **CURSOR** buttons ▲ or ▼ to highlight the function to be adjusted.
- Press the CURSOR buttons

 or

 to adjust the function. Press the SELECT button to select the function settings.

lacksquare

- 3. Press MENU to return to main menu or select PICTURE MODE to return to previous menu.
- 4. Press **EXIT** to quit menu.

Contrast

Use this function to change the contrast between black and white levels in the picture.

Brightness

Use this function to adjust overall picture brightness.

Color

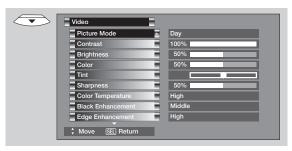
Use this function to adjust the level of color in the picture.

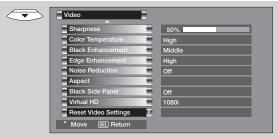
Tint

Use this function to adjust flesh tones so they appear natural.

Sharpness

Use this function to adjust the amount of fine detail in the picture. Sharpness function will be disabled when Noise Reduction is set to High.





Video

Color Temperature

Set this to High for cooler color with more blue, set to Medium for more natural color, set to Standard for accurate color or set to Black/White for more reddish color.

Black Enhancement

Use this function to enhance Picture brightness in light scenes using the settings off, low, middle and high.

Edge Enhancement

Use this function to automatically enhance the edges between light and dark areas using the settings Off, Low, Middle and High.

- **NOTE:** 1. If CONTRAST is selected, you are adjusting CONTRAST. The additional menu items BRIGHTNESS, COLOR, TINT, and SHARPNESS can be selected and adjusted in the same manner.
 - 2. It may be necessary to adjust TINT to obtain optimum picture quality when using the COMPONENT VIDEO Y-PBPR input jacks.
 - CABLE and AIR share a Video setting. Also, each of the video inputs have their own independent settings.

Noise Reduction

The **NOISE REDUCTION** function automatically reduces conspicuous noise in the picture without degrading picture quality. Set **NOISE REDUCTION** to **OFF** if the TV experiences picture blocking. When Noise Reduction is set to High, Sharpness function is disabled (grayed out).

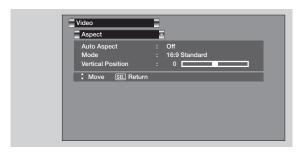
Aspect

Use this function to select the Picture Format Aspect Ratio.

- Use the CURSOR buttons ▲ or ▼ to highlight the function to be adjusted.
- Press the CURSOR buttons

 or

 to select
 ASPECT MODE.



Auto Aspect

Automatically adjust the Aspect Ratio depending on the input signal to fill the screen.

- NOTE: 1. The Auto Aspect function is recommended on an input signal with VIDEO ID.
 - 2. The Auto Aspect function is best used on COMPOSITE VIDEO, S-VIDEO, 480i and 480p COMPONENT/HDMI signals.
 - 3. See page 20 for ASPECT MODE availability.
- Press the CURSOR buttons ◀ or ▶ to select VERTICAL POSITION.

Vertical Position

This function allows you to select when aspect style is either **4:3 EXPANDED/ZOOM1/ZOOM2** or **16:9 ZOOM.** Vertical position can be changed with these modes. For example, it will be useful for centering the picture area at both the top and bottom of the picture with 480i/480P signal. Adjustable range is -10 (video center is toward bottom of screen) to +10 (video center is toward top of screen).

NOTE: Vertical Position will not be available in 4:3 STANDARD and 16:9 STANDARD MODES.

- 5. Press MENU to return to main menu or select PICTURE MODE to return to previous menu.
- 6. Press **EXIT** to quit menu.

Video

Black Side Panel

The BLACK SIDE PANEL function turns the gray side bars on/off when watching 4:3 signals in Standard mode. The top/bottom gray bar will appear in SPLIT MODE PIP and SPLIT FREEZE. The TV set will always return to "Set Black Side Panel - OFF" setting every time the TV is powered "OFF".

NOTE: To maximize operating life of the TV's picture tubes when watching 4:3 signal, Black Side Panel is cancelled at Power OFF. It is recommended to watch 4:3 signal with gray side bar.

Virtual HD

Use this feature to quickly change the scanning mode from 540p (progressive scanning) to 1080i (interlace scanning).

When images from film are processed for broadcast to your home, picture noise or distortion can occur. Virtual HD™ technology reduces this noise to a minimum, recreating the smooth curves and high fidelity image of the original film source.

NOTE: VIRTUAL HD is not available (grayed out) in Digital Channels, 1080i input, HDMI and components.

Reset Video Settings

This function allows you to Reset the Video Menu Settings of the present input and return it to the Day VIDEO mode.

- Use the CURSOR buttons ▲ or ▼ to highlight the function to be adjusted.
- Press the SELECT button to select RESET VIDEO SETTINGS.
- Use the CURSOR button ▼ to access other video settings.

You can customize each of the Video Inputs to your preference to increase viewing performance and pleasure, depending upon the video program being viewed. If **RESET** is selected, only the selected Input will reset to the initial conditions as explained above.

If **RESET** is selected in Input 1, only Input 1 will return to factory conditions.





- NOTE: 1. If YES and ALL MENU SETTINGS are selected, the VIDEO MENU SETTINGS will be reset to the original factory settings on all modes during the next power on/off. However, if a CableCARD is installed (see page 11) or the "Quick Start Up" (see page 55) is set to ON, the VIDEO MENU SETTINGS will not reset and will be kept. In these two cases, please unplug the AC Power Cord to reset all settings.
 - 2. If YES is selected, the LOCKS settings or PARENTAL CONTROL feature will also reset.

Audio



Select AUDIO to adjust the TV to your preference and to improve the sound quality.

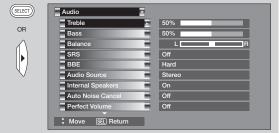
- Use the CURSOR buttons ▲ or ▼ to highlight the function to be adjusted.
- Press the CURSOR buttons

 or

 to adjust the function.
- Press EXIT to quit the menu or select AUDIO to return to the main menu.

NOTE: If TREBLE is selected you are adjusting TREBLE. The additional menu items BASS and BALANCE can be selected and adjusted in the same manner.





Treble

This function controls the high frequency audio to all speakers.

Bass

This function controls the low frequency audio to all speakers.

Balance

This function will control the left to right balance of the Projection TV internal speakers.

SRS

Based on the principles of the human hearing system, **SRS** technology delivers and exciting and realistic 3D Sound experience from just two external speakers (or) the two internal speakers of your **HITACHI** Television. If your **HITACHI** Television is connected to an external audio system, **SRS** will also create an incredible 3D sound experience from two speakers and even enhance a complete multi-speaker surround sound system.

▼

SRS and the () symbol are trademarks of SRS Labs, Inc. SRS technology is incorporated under license from SRS Labs, Inc.

BBE

Sound reproduction quality enhancement system. The **BBE** technology produces sound that is natural and crisp from just two speakers or the two internal speakers found in your **HITACHI** television. If your **HITACHI** television is connected to an external audio system, **BBE** will also create an incredible crisp sound experience from two speakers. **BBE** brings to the listener's ear a more complete and accurate reproduction of the original performance. Each voice, speaking or singing, each instrument or sound effect is presented with its attendant harmonics or partials more clearly audible. The ear can then more easily recognize the unique tonal colors of each sound as though the sound was being produced live.

Licensed by BBE Sound, Inc. under USP5510752 and 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc. Manufactured under license from BBE Sound, Inc.

Audio

Audio Source

Multi-Channel Television Sound will allow you to select **STEREO** (a stereo broadcast), **MONO** (monaural sound) used when receiving a weak stereo broadcast or **SECOND AUDIO PROG** (SA) which may be a secondary language, weather report, etc.

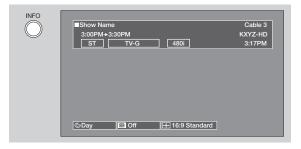
The sources received will be displayed at the top left edge of the TV. See example to the right for each source received.

 Press the **INFO** button to display the source received.

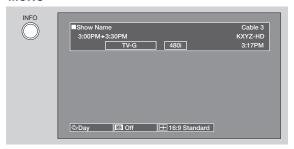
NOTE: 1. When a monaural (MONO) audio broadcast source is received, no label will be displayed.

2. When a ST/SA label is displayed, the audio being received will be both STEREO and SECOND AUDIO.

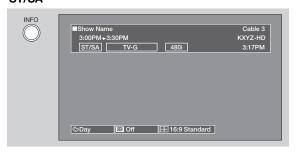
STEREO



MONO



ST/SA



Internal Speakers

This function is useful when setting up the external speakers.

ON	Select this feature if using the internal speakers only.
TV as Center	Select this feature when setting up external speakers from a separate stereo system. The
	TV's speakers will work as the center speaker.
OFF	Select this feature if you prefer to use only speakers from a separate stereo system.

Auto Noise Cancel

This function eliminates the noise between stations. If a channel is tuned and is noisy, this function will automatically eliminate the audio for that channel.

Perfect Volume

This function will automatically adjust volume so each channel and input has the same average volume level.

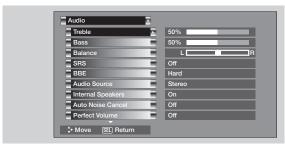
Loudness

This function turns loudness **ON** or **OFF**. It will improve the quality of both low and high frequency sounds when listening at low volume levels.

Audio

Use the functions below if your TV is connected to an amplifier/receiver with **OPTICAL DIGITAL INPUT** with Dolby Digital or PCM decoder capabilities.

- Use the CURSOR buttons ▲ or ▼ to highlight the function to be adjusted.
- 3. Press **EXIT** to quit the menu or select **AUDIO** to return to the main menu.





Language

Some programs transmit more than one DTV language option. Most will have English as a default language. The language function will allow you to select up to 4 language options (if available).

Digital Output

This function allows you to select between Dolby® Digital and PCM.

Dolby® Digital	Select this feature if the TV is connected to an amplifier/ receiver with a Dolby® Digital only decoder; it will provide six independent soundtrack channels through the optical output
	jack (Digital Audio).
PCM	Select this feature if the TV is connected to an amplifier/ receiver with a PCM only decoder; it will provide two independent soundtrack channels through the optical output jack (Digital Audio).

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

DRC

Dynamic Range Compression - Use this function to compress the range of sound volume. By compressing the range of sound volume, it is possible not only to suppress the output of loud sound at night but also to raise the volume of low sound. This is only effective when the TV is connected via the optical out (digital audio) to an amplifier/receiver with a Dolby® Digital decoder. The default setting is ON. Use the **CURSOR** buttons ◀ or ▶ to select the chosen options.

NOTE: These functions are only available when viewing digital programs.

Channel Manager

Channel Manager

Select **CHANNEL MANAGER** to set your Antenna options, run Auto Channel Scan, Check Signal Meter and Set Channel List.

 $\overline{\mathbf{v}}$

- Use the CURSOR buttons ▲ or ▼ to highlight the function to be adjusted.
- Press the SELECT button or CURSOR button ► to select.



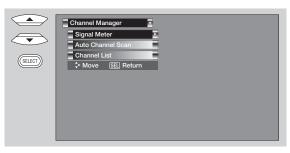


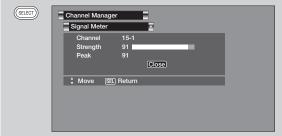
Signal Meter

Select **SIGNAL METER** when using an indoor or outdoor antenna. This feature will show the signal strength and peak values of the Antenna signal to help you adjust your antenna to optimize signal reception.

- Use the CURSOR buttons ▲ or ▼ to highlight SIGNAL METER.
- 2. Press the **SELECT** button to select.

NOTE: The Signal Meter will not be available (grayed out) when watching analog channels.





Channel Manager

Auto Channel Scan

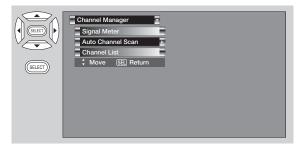
This feature will automatically store active TV channels in Auto Channel Scan memory.

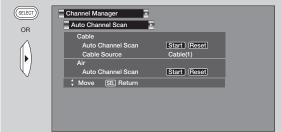
- Use the CURSOR buttons ▲ or ▼ to highlight CABLE or AIR.
- Press the CURSOR buttons

 or

 to highlight the START or RESET option.
- 3. Press the **SELECT** button to select.

NOTE: When a CableCARD is installed, Auto Channel Scan for **CABLE** will not be available.





Channel List

This function allows you to review which channels are labeled (CH ID), which have been added to CHANNEL MEMORY (SCAN), which are protected by LOCK and which are your FAVORITE (FAV) CHANNELS.

- Use the CURSOR buttons navigate the Channel List.
- Press the SELECT button to select ON or OFF on the SCAN and LOCK Columns.
- 3. To select the **LOCK** column, input the access code. (Default access code: 0000)
- Press the FAV button to set or remove the FAVORITES settings.
- 5. Press the **EXIT** button to return to normal viewing.





- **NOTE:** 1. When a CableCARD is installed, the Channel List will be dependent on channels agreed upon by you and your cable operator.
 - 2. When changing cable sources from CABLE (1) to CABLE (2), the AUTO CHANNEL SCAN needs to be repeated for the Channel List to be updated.

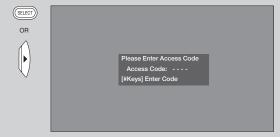
Locks

This function will block out the picture and sound of the selected channel or video input. It can also be used to keep the TV from being viewed for a scheduled time period that you set.

The code to enter the Locks feature is a four digit access code number. The factory preset code is **0000**. Use the **NUMBER** buttons to enter the access code.

- Use the CURSOR buttons ▲ or ▼ to highlight the function.
- 2. Press the **SELECT** button to select.







Change Access Code

1. To change the ACCESS CODE NUMBER, select CHANGE ACCESS CODE to change the factory preset code (0000) to your preference.

If you forget your **ACCESS CODE NUMBER**, use the factory code **7777** to erase your key number. This will reset the access code number back to the factory preset **(0000)**.

- 2. Enter a new four digit number.
- 3. Press EXIT to quit the menu or select CHANGE ACCESS CODE to return to the previous menu.

Engage Lock

When ENGAGE LOCK is selected, SET CHANNEL LOCK and SET FRONT PANEL LOCK can be set individually.

When SET CHANNEL LOCK is turned on, the picture and sound for the chosen channel will be blocked out.

When **SET FRONT PANEL LOCK** is turned on, all buttons on the Front Panel will be deactivated, except the **POWER** button.

When **MOVIE RATINGS** is selected, you can block various types of movies and video tapes based on motion picture ratings. Picture-in-Picture will also be blocked automatically (see page 41).

When **TV RATINGS** is selected, various types of television programming based on a parental guide ratings will be blocked. Picture-in-Picture will also be blocked automatically (see page 42).

Use **CANADIAN RATINGS** to block various types of movies and television programs based on the two rating systems used in Canada that you feel may be inappropriate due to its content (see pages 43-44).

NOTE: If MOVIE/TV RATINGS LOCK function settings are ON, SURF will be deactivated.

Movie Ratings

Use Movie Ratings to prevent viewing of any movie that you feel may be inappropriate due to its content.

- Use the CURSOR buttons ▲ or ▼ to select the MOVIE RATING category that you want to block.
- Press SELECT to block the MOVIE RATING that you have selected. Once rating is selected, for example PG-13, all movies rated PG-13 and higher (R, NC-17, and X) will be blocked.
- Press EXIT to quit the menu or select MOVIE RATING to return to the previous menu.





Motion Picture Ratings Table

NOT RATED	Contains no rating. Not Rated (NR) and Not Applicable (NA) programs. Movie has not
	been rated or ratings do not apply.
G	General audiences. All ages admitted.
PG	Parental guidance suggested. Some material may not be suitable for children.
PG-13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
R	Restricted. Under 17 requires accompanying parent or adult guardian.
NC-17	No one 17 and under admitted.
X	Adults only

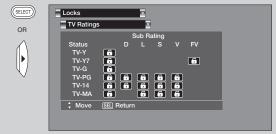
- **NOTE:** 1. A movie rating is dependent upon the movie that is viewed. If the movie does not carry a rating, the TV will not block it.
 - 2. Blocking **NOT RATED** programs may block emergency programming, sports, news, public service announcements, religious programs and weather.
 - 3. If a CableCARD is installed, your cable operator may provide an Emergency Alert System (EAS) message in the event of a local or national emergency with the purpose of alerting the general public. When you receive such messages, the Projection Television will immediately tune to an EAS channel as directed by the EAS message. Please be advised that if the EAS channel is blocked using the LOCKS feature, you will not be able to tune to that channel.

TV Ratings

Use **TV RATINGS** to prevent the viewing of any TV program that you feel may be inappropriate due to its content.

- Use the CURSOR buttons ▲ or ▼ to select the TV RATING category that you want to block.
- Press SELECT to block the TV RATING that you have selected.
- 3. Press **EXIT** to quit the menu or select **TV RATING** to return to the previous menu.





TV Parental Guide Ratings Table

IV Faicillai	duide natiliga lable
TV-Y	All children. The themes and elements in this program are specifically designed for a very
	young audience, including children from ages 2-6.
TV-Y7	Directed to older children. Themes and elements in this program may include mild
	physical or comedic violence, or may frighten children under the age of 7.
TV-G	General audience. It contains little or no violence, no strong language, and little or no
	sexual dialogue or situations.
TV-PG	Parental guidance suggested. The program may contain infrequent coarse language,
	limited violence, some suggestive sexual dialogue and situations.
TV-14	Parents strongly cautioned. This program may contain sophisticated themes, intense
	sexual situation, more intense violence and intensely suggestive dialogue.
TV-MA	Mature audiences only. This program may contain mature themes, indecent language,
	graphic violence, and explicit sexual content.
FV	Fantasy Violence
V	Violence
S	Sexual Situation
L	Adult Language
D	Sexually Suggestive Dialogue

- **NOTE:** 1. If you Block **TV-14D**, you will still permit **TV-MA** programs; If you block **TV-14V**, you will automatically block **TV-MAV** programs, but you will still permit **TV-MALS** programs. This means that the **TV** will block violence in **TV-14** and higher (**TV-MA**), but not language and sex.
 - 2. TV program ratings are dependent on the broadcaster. If the program is not rated, the TV will not block it.
 - 3. If a CableCARD is installed, your cable operator may provide an Emergency Alert System (EAS) message in the event of a local or national emergency with the purpose of alerting the general public. When you receive such messages, the Projection Television will immediately tune to an EAS channel as directed by the EAS message. Please be advised that if the EAS channel is blocked using the LOCKS feature, you will not be able to tune to that channel.

Canadian Ratings (Eng)

Use **CANADIAN RATINGS (ENG)** to block any type of movie and television program in Canada that you feel might be inappropriate in its content.

- Use the CURSOR buttons ▲ or ▼ to select the CANADIAN RATINGS (ENG) category that you want to block.
- Press SELECT to block the CANADIAN RATINGS (ENG) that you have selected. Once rating is selected, for example C8+, all movies and television programs rated C8+ and higher (G, PG, 14+ and 18+) will be blocked automatically.
- 3. Press **EXIT** to quit the menu or select **CANADIAN RATINGS (ENG)** to return to the previous menu.





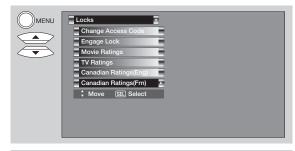
Canadian Ratings English Table

С	Programming intended for children under age 8 - Violence Guidelines; Careful attention is
	paid to themes, which could threaten children's sense of security and well-being. There will
	be no realistic scenes of violence. Depictions of aggressive behaviour will be infrequent
	and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature. Other
	Content Guidelines: There will be no offensive language, nudity or sexual content.
C8+	Programming generally considered acceptable for children 8 years and over to watch on
	their own - Violence Guidelines: Violence will not be portrayed as the preferred, acceptable,
	or only way to resolve conflict; or encourage children to imitate dangerous acts which they
	may see on television. Any realistic depictions of violence will be infrequent, discreet, of
	low intensity and will show the consequences of the acts. Other Content Guidelines: There
	will be no profanity, nudity or sexual content.
G	General Audience - Violence Guidelines: Will contain very little violence, either physical or
	verbal or emotional. Will be sensitive to themes which could frighten a younger child, will
	not depict realistic scenes of violence which minimize or gloss over the effects of violent
	acts. Other Content Guidelines: There may be some inoffensive slang, no profanity and
	no nudity.
PG	Parental Guidance - Programming intended for a general audience but which may not be
	suitable for younger children. Parents may consider some content inappropriate for
	unsupervised viewing by children ages 8-13. Violence Guidelines: Depictions of conflict
	and/or aggression will be limited and moderate; may include physical, fantasy, or
	supernatural violence. Other Content Guidelines: May contain infrequent mild profanity, or
	mildly suggestive language. Could also contain brief scenes of nudity.
14+	Programming contains themes or content which may not be suitable for viewers under the
	age of 14 - Parents are strongly cautioned to exercise discretion in permitting viewing by
	pre-teens and early teens. Violence Guidelines: May contain intense scenes of violence.
	Could deal with mature themes and societal issues in a realistic fashion. Other Content
	Guidelines: May contain scenes of nudity and/or sexual activity. There could be frequent
	use of profanity.
18+	Adult - Violence Guidelines: May contain violence integral to the development of the plot,
	character or theme, intended for adult audiences. Other Content Guidelines: May contain
	graphic language and explicit portrayals of nudity and/or sex.

Canadian Ratings (Frn)

Use **CANADIAN RATINGS (FRN)** to block Canadian French programs according to various program ratings that you feel might be inappropriate in its content.

- Use the CURSOR buttons ▲ or ▼ to select the CANADIAN RATINGS (FRN) category that you want to block.
- Press SELECT to block the CANADIAN RATINGS (FRN) that you have selected. Once rating is selected, for example 8 ANS+, all movies and television programs rated 8 ANS+ and higher will be blocked automatically.
- 3. Press **EXIT** to quit the menu or select **CANADIAN RATINGS (FRN)** to return to the previous menu.





Canadian Ratings French Chart

General - Programming intended for audiences of all ages. Contains no violence, or the
violence content is minimal or is depicted appropriately with humor or caricature or in an
unrealistic manner.
8 + General - Not recommended for young children - Programming intended for a broad
audience but contains light or occasional violence that could disturb young children.
Viewing with an adult is therefore recommended for young children (under the age of 8)
who cannot differentiate between real and imaginary portrayals.
Programming may not be suitable for children under the age of 13 - Contains either a few
violent scenes or one or more sufficiently violent scenes to affect them. Viewing with an
adult is therefore strongly recommended for children under 13.
Programming is not suitable for children under the age of 16 - Contains frequent scenes of
violence or intense violence.
Programming restricted to adults - Contains constant violence or scenes of extreme
violence.

Timers



Select TIMERS to set your Clock, Sleep Timer, Event Timer and Day/Night Timer Recordings.

- 1. Use the CURSOR buttons ▲ or ▼ to highlight the function to be adjusted.
- 2. Press the **SELECT** button or **CURSOR** button ▶ to select.





Set The Clock

The Clock must be adjusted before you can use the SET EVENT TIMER or DAY/NIGHT TIMER feature.

- 1. Use the **CURSOR** buttons **◄**, **▶**, **▲** or **▼** to highlight the chosen TIME ZONE settings.
- 2. Press the SELECT button to select. If you observe daylight savings, use CURSOR buttons to highlight **DAYLIGHT SAVING CORRECTION** and press the **SELECT** button to select.
- 3. Use the **CURSOR** buttons \blacktriangleleft , \blacktriangleright , \blacktriangle or \blacktriangledown to highlight the CURRENT TIME (hour and minute), AM or PM, MONTH, DAY, and YEAR.
- Use the **CURSOR** buttons ▲ and ▼ to adjust settings.
- Press the **SELECT** button to set the **TIME AND DATE**.
- Press EXIT to quit the menu or select SET THE CLOCK to return to the previous menu.
- NOTE: 1. When AUTOMATICALLY ADJUST CLOCK FOR DAYLIGHT SAVING CHANGES is checked ✓, the TV will automatically calculate the clock adjustment for Daylight Saving.
 - 2. When the CableCARD is used, the TV will SET THE CLOCK automatically.
 - 3. The TV counts electrical pulses for regulating the TIMERS. When the power cord is unplugged then plugged in quickly, the clock is stopped momentarily and the TIME indication will become slow.





Timers

Set Sleep Timer

Select this feature to set your **SLEEP TIMER** from 30 minutes to 3 hours (30 minute increments).

Press the CURSOR buttons

or

repeatedly to set your Timer from 0:00, 0:30, 1:00, 1:30, 2:00, 2:30 and 3:00.



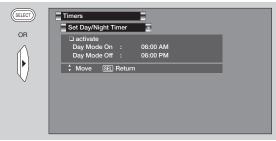
Set Day/Night Timer

Select this feature to activate and set your TV's **DAY/NIGHT PICTURE MODE** automatically.

- Use the CURSOR buttons ▲ or ▼ to highlight SET DAY/NIGHT TIMER settings.
- Press the SELECT button or CURSOR button ► to select.
- 3. Use the CURSOR buttons ◀, ▶, ▲ or ▼ to select DAY MODE ON and to set it's TIMER.
- Use the CURSOR buttons ◀, ▶, ▲ or ▼ to select DAY MODE OFF and to set it's TIMER.
- Press EXIT to quit the menu or select SET DAY/NIGHT TIMER to return to the previous menu.

NOTE: When the clock is changed in the **SET THE CLOCK** function, this feature is disabled.





Timers

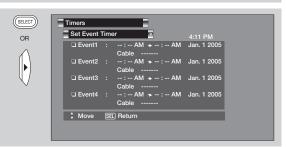
Set Event Timer

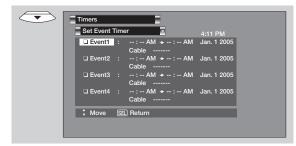
This function will automatically operate the Projection TV viewing reservation of a program. If the clock is not set, you can not use this function and the screen below will appear. The message on the screen will disappear after 3 seconds, then the screen automatically goes to the clock setup mode (see page 45).

- Use the CURSOR buttons ▲ or ▼ to highlight EVENT 1, EVENT 2, EVENT 3, EVENT 4 and then press the SELECT button to select.
- Use the CURSOR buttons ▶, ▲ or ▼ to highlight and select START TIME HOUR/MINUTE.
- 3. Use the **CURSOR** buttons ▶, ▲ or ▼ to highlight and select **START TIME AM/PM**.
- Use the CURSOR buttons ▶, ▲ or ▼ to highlight and select FINISH TIME HOUR/MINUTE.
- Use the CURSOR buttons ▶, ▲ or ▼ to highlight and select FINISH TIME AM/PM.
- Use the CURSOR button ▶ to highlight the MONTH.
- Use the CURSOR button ▲ to select a MONTH or CURSOR button ▼ to select DAILY, WEEKLY -SUNDAY TO MONDAY. Use the CURSOR button ▲ to return to MONTH.
- Use the CURSOR buttons ▶, ▲ or ▼ to highlight and select the DAY of the MONTH.
- Use the CURSOR buttons ▶, ▲ or ▼ to highlight and select the YEAR.
- 10. Use the **CURSOR** buttons ▶, ▲ or ▼ to highlight and select **CABLE** or **AIR**.
- 11. Use the **CURSOR** buttons ▶, ▲ or ▼ to set the channel the TV will tune into.
- 12. Use the **SELECT** button to enable **EVENT SETTINGS**. A \overrightarrow{v} in the box means it is enabled.
- **NOTE:** 1. When the **INFO** button is pressed, the Event Timer Icon will only display the current date **ON/OFF** timer.
 - The OFF TIMER will only activate if the TV was turned on by the ON TIMER and no channel selection was made after this time. If you change the channel after the ON TIMER has been activated, the OFF TIMER will deactivate.
 - 3. If no remote control button is pressed after viewing reservation is activated, the TV will automatically turn off after three hours. Therefore, do not SET EVENT TIMER for more than three hours if you do not plan to control your television with the remote control.
 - 4. When a CableCARD is installed or removed, EVENT SETTINGS of the CABLE mode are cancelled.
 - 5. When the CLOCK is changed in the SET THE CLOCK function, events are disabled and the check mark is removed











CAUTION: Do not use your TV as a deterrent when away from home by using the **ON** and **OFF TIMERS**. For safety, the TV should be turned off when you are away from home.

Setup

Select SETUP when setting your TV up for the first time.

 $\overline{\mathbf{v}}$

- Use the CURSOR buttons ▲ or ▼ to highlight the function to be adjusted.
- Press the SELECT button or CURSOR button ► to select.





Magic Focus Tune Up

Auto Digital Convergence Adjustment

Please turn **ON** your television for at least 20 minutes before using this feature.

The **MAGIC FOCUS** button on control panel will not work when adjustment mode is set to **MANUAL** (see page 50 or 51).

Your **HITACHI** Projection TV has three color projection tubes: one for red, one for green, one for blue. When mixed together in the proper proportion, the output of these three color tubes can produce any color. To produce these colors, however, the beams must be precisely aligned over each other so that the colors can be mixed. The process of aligning these picture beams is called "convergence".

Over a period of time, the picture tubes can drift out of alignment due to normal bumps and vibrations or moving the TV. If you move your TV, or if, after a time, you notice color rings or halos around objects in the picture, you may want to converge (align) the colors.

Properly converged, the lines appear white, which is actually a combination of the outputs of the three color tubes. The output of the green tube is stationary. The outputs of the red and blue tubes can be adjusted. When properly aligned, the outputs of all three tubes should be directly over each other to produce the white lines.







To simplify convergence, **HITACHI** incorporates a function called **MAGIC FOCUS** located on the front control panel, which allows the TV to self-adjust. Press this **MAGIC FOCUS** button and the convergence self adjustment will start and this process will take approximately 20 seconds. If this button is pressed during this process, no change in picture quality will occur. After this 20 second self-adjust period, picture quality will be optimum (do not move the TV during self-adjust).

You may also select MAGIC FOCUS TUNE UP from the Setup Menu.

- NOTE: 1. Only a momentary press of the MAGIC FOCUS button is necessary to start AUTO DIGITAL CONVERGENCE. At any time during this convergence correction process, you may press the MAGIC FOCUS button to exit the MAGIC FOCUS mode. However, the convergence correction process needs to be completed to SAVE the new corrected convergence data.
 - 2. When Auto V AT TURN OFF is selected, the TV will adjust itself after 90 days.









Manual Convergence Adjustment Mode (9 Point Manual Adjustment)

NOTE: 1. Please turn **ON** your television for at least 20 minutes before using this feature.

- 2. AUTO ADJUSTMENT MODE is recommended. If convergence is still not acceptable, use the MANUAL ADJUSTMENT MODE.
- If AUTO ADJUSTMENT MODE is selected or the MAGIC FOCUS button is pressed, all manual adjust mode settings will be erased.

Using the Remote Control, select **SETUP**, **MAGIC FOCUS TUNE UP**, **MANUAL ADJUSTMENT MODE**, **9 POINT MANUAL**, **START** to access convergence 9 point pattern. The adjustment point is indicated by the Adjustment Point Cursor.

To Move Adjustment Point

To move the Adjustment Point Cursor using the **CURSOR** buttons, the Adjustment Point Cursor must be **WHITE**. Another way to move the Adjustment Point Cursor is to press the following buttons: [2] up, [4] left, [5] down, [6] right. If you use the number buttons while the adjustment point is **WHITE**, it will change to **RED**.

To Change the Color of Adjustment Point

Press the **SELECT** button repeatedly **(WHITE-RED-BLUE-WHITE...)**. **GREEN** color is fixed and cannot be adjusted.

To Adjust the Convergence

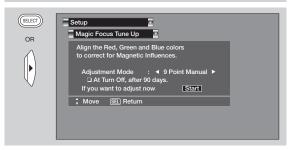
Move the Adjustment Point Cursor to the point to be adjusted. Use the **CURSOR** buttons to match the **RED** and **BLUE** colors to **GREEN** (reference color). Properly aligned, all three colors should appear white.

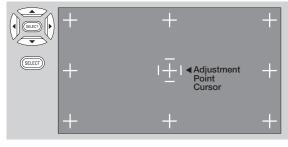
If convergence is acceptable after **MANUAL CONVERGENCE** adjustment, press **EXIT** button to access menu mode.

- Use the CURSOR buttons to highlight your chosen option.
- 2. Press the SELECT button to select.
- 3. Select **CANCEL** to cancel adjusted data and return to main picture.
- 4. Select **DONE** to save your adjustments and return to main picture.
- 5. Select **BACK** to return to the manual convergence adjustment mode.
- 6. Select **RESET** to recall the factory pre-set convergence data.











Manual Convergence Adjustment Mode (117 Point Manual Adjustment)

NOTE: 1. Please turn **ON** your television for at least 20 minutes before using this feature.

- 2. AUTO ADJUSTMENT MODE is recommended. If convergence is still not acceptable, use the MANUAL ADJUSTMENT MODE.
- 3. If AUTO ADJUSTMENT MODE is selected or the MAGIC FOCUS button is pressed, all manual adjust mode settings will be erased.

Using the Remote Control, select **SETUP**, **MAGIC FOCUS TUNE UP**, **MANUAL ADJUSTMENT MODE**, **117 POINT MANUAL**, **START** to access convergence 117 point pattern. The adjustment point is indicated by the Adjustment Point Cursor.

To Move Adjustment Point

To move the Adjustment Point Cursor using the **CURSOR** buttons, the Adjustment Point Cursor must be **WHITE**. Another way to move the Adjustment Point Cursor is to press the following buttons: [2] up, [4] left, [5] down, [6] right. If you use the number buttons while the adjustment point is **WHITE**, it will change to **RED**.

To Change the Color of Adjustment Point

Press the **SELECT** button repeatedly **(WHITE-RED-BLUE-WHITE...)**. **GREEN** color is fixed and cannot be adjusted.

To Adjust the Convergence

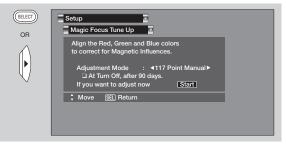
Move the Adjustment Point Cursor to the point to be adjusted. Use the **CURSOR** buttons to match the **RED** and **BLUE** colors to **GREEN** (reference color). Properly aligned, all three colors should appear white.

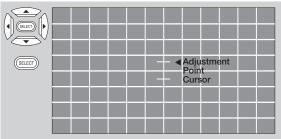
If convergence is acceptable after **MANUAL CONVERGENCE** adjustment, press **EXIT** button to access menu mode.

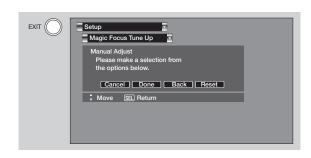
- Use the CURSOR buttons to highlight your chosen option.
- 2. Press the SELECT button to select.
- 3. Select **CANCEL** to cancel adjusted data and return to main picture.
- 4. Select **DONE** to save your adjustments and return to main picture.
- 5. Select **BACK** to return to the manual convergence adjustment mode.
- 6. Select **RESET** to recall the factory pre-set convergence data.











Menu Preference

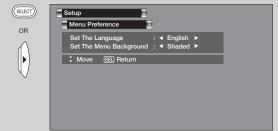
This feature will allow you to select any one of three different languages for all on-screen displays.

Set the Language

This function allows you to choose from three menu languages.

- 1. Use the **CURSOR** buttons **◄** or **▶** to highlight the language of your choice.
- Press EXIT to quit menu or select MENU PREFERENCE to return to previous menu.





Set the Menu Background

This function allows you to choose from two menu backgrounds.

- Use the CURSOR buttons o r ► to highlight SET THE MENU BACKGROUND (SHADED OR SOLID).
- Press EXIT to quit menu or CURSOR button ◀ to return to previous menu.
- Select SOLID for a black background (no picture can be seen behind menu screen), or select SHADED for a light background.

Set The Menu Background : ◀ Shaded ▶ ‡ Move SEI Return

Set The Inputs

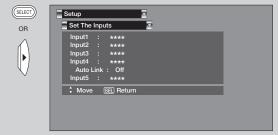
Use this feature to give a name to any of the five video inputs. A named input is shown in the **INPUTS** menu.

- Press the CURSOR buttons ▲ or ▼ to highlight INPUTS 1-5.
- Press the CURSOR buttons ◀ or ▶ to select one of the following choices to set an input name:
 A/V Receiver, DVD, DVD2, VCR, VCR2,
 Cable (STB), Satellite, PVR, DVD Recorder,
 CAM, LB, Gray out (Skip), Hide (Skip)

When Gray Out (Skip) is selected, the input menu becomes gray in color and will not be available. When Hide (Skip) is selected, the input menu is concealed.

Note: The inputs labeled Gray out (Skip) or Hide (Skip) are disabled in the **INPUTS** selection.





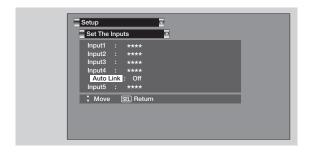
INPUT 4 Auto Link

Use this function to automatically turn the TV on and tune to **INPUT 4** when it detects a video signal to **INPUT 4**.

- Use the CURSOR buttons

 or

 to highlight the
 AUTO LINK setting of your choice.
- When AUTO is selected, the TV will turn on and tune to INPUT 4 automatically, when the INPUT 4 input device is turned on. This is convenient when you want to watch a movie with your VCR, laserdisc player or DVD player.



- 3. When **REMOTE** is selected, the TV will turn on and switch to **INPUT 4** automatically when the **INPUT 4** input device is turned on and the VCR, laserdisc, or DVD play button on your remote control is pressed. This is convenient when you want to record a movie with your VCR and watch it later.
- 4. Select **OFF** to disable this function.
- 5. Press **EXIT** to guit menu or select **AUTO LINK** to return to previous menu.
- **NOTE:** 1. Once the TV has been turned on using the **AUTO LINK** feature, it must be reset before **AUTO LINK** is used again. To do this, turn your VCR, laserdisc or DVD player OFF. This feature is now reset and will turn on your TV as described above.
 - 2. When using **REMOTE** mode, any remote control button will substitute for your video input device play button. However, intended operation is for use with your VCR, laserdisc, or DVD play button.
 - 3. If no remote control button is pressed after the TV is turned on by AUTO LINK, the TV will automatically turn off after three hours.

Set Closed Caption

Closed Captions are the dialogue, narration, and/or sound effects of a television program or home video which are displayed on the TV screen. Your local TV program guide denotes these programs as co or

- Use the CURSOR buttons ◀, ▶, ▲ or ▼ to highlight and select the function to change.
- Press EXIT to quit menu or CURSOR button ◀ to return to previous menu.

Caption Display:

ON/OFF will turn the codisplay on or off. **AUTO** will turn the codisplay on when Mute/Soft Mute is on.

Analog Caption:

Sets **CAPTIONS** for analog programs. This function will help choose available mode and channel.



Caption Mode:

CAPTIONS is for the program you are viewing. **TEXT** is for additional information such as news reports or a TV program guide. This information covers the entire screen and viewing the TV program is not possible. Text may not be available with every **CC** program.

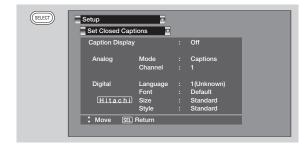
Channel:

- 1 is used for the primary language (usually English).
- 2 is sometimes used for a second language (may vary by region).
- 3 is sometimes used for a third language (may vary by region).
- 4 is sometimes used for a fourth language (may vary by region).

Digital Captions

Set captions for digital programs. This function will help choose and set available language, font, size and style of digital captions.

- Use the CURSOR buttons ◀, ▶, ▲ or ▼ to highlight and select DIGITAL CAPTIONS feature.
- Press EXIT to quit menu or CURSOR button ◀ to return to previous menu.



NOTE: 1. Some types of digital closed captions will not work with this TV.

- 2. Caption Display will not work when viewing a 480p, 720p or 1080i input via the COMPONENT: Y-PBPR inputs.
- 3. When PIP SURF is on, Closed Caption will not work.
- 4. Digital Captions Font Style are sometimes different from the Font Style of Analog Captions.
- 5. Closed Caption and Digital Captions availability and content depends on the broadcaster. Closed Caption is available when Closed Caption icon is displayed on screen.
- 6. Digital Captions will not be available (grayed out) when using analog channels.

Set Monitor Out

This feature will select the source of the Monitor Output.

Monitor:

Select **MONITOR** to output the audio and video signals of the chosen input source **(CABLE, AIR, INPUT 1-5)** to a VCR or other A/V device.

TV Tuner Out:

Select **TV TUNER OUT** to output the audio and video signals of the last watched Antenna Source **(CABLE, AIR).**

Fixed:

Select **AUDIO OUT FIXED** to have the Audio at fixed volume.

Video Out : Monitor Video In : Fixed \$ Move SEL Return

Variable:

Select AUDIO OUT VARIABLE to have Audio settings that can be controlled.

- 1. Use **CURSOR** buttons ▲ or ▼ to highlight the function to change
- 2. Use the **CURSOR** buttons ◀ or ▶ to select the function.
- 3. Press **EXIT** to quit menu or **CURSOR** button ◀ to return to previous menu.

NOTE: When TV TUNER OUT is selected, VARIABLE AUDIO OUT will not be available (grayed out).

Upgrades

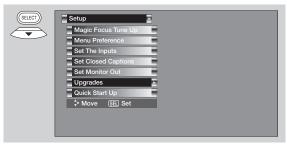
It shows software information and easy upgrade procedure. This function allows the TV software to be upgraded by using a flash card (MMC CARD). If a future software upgrade is required for your TV, HITACHI will notify and provide you with a flash card. In order to receive written notification and the flash card, please complete and return the warranty card.

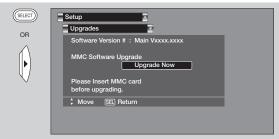
- 1. Insert MMC CARD
- Press the CURSOR buttons ▲ or ▼ to highlight UPGRADE NOW.
- 3. Press the **SELECT** button to select and start upgrading.
- 4. Unplug the power cord when the upgrade is complete.

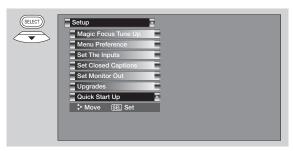
NOTE: Any power interruption during the upgrade process will cancel the upgrade. When this happens, repeat the upgrade procedure.

Quick Start Up

This feature will select **QUICK START UP** options. Set this feature to **ON** to have the TV tune channels (both Analog and Digital) quickly when first turning the TV on. Set this feature to **OFF** to save electricity. Selecting **ON** for the **QUICK START UP** feature will activate the TV tuners circuits when the TV is in "standby mode" which is commonly referred to as "off". This will allow you to quickly tune to channels when first turning the TV on. Digital signals often change and this feature will monitor any changes and prepare the television to quickly present a picture. A small amount of electricity is used to continually monitor signals when this feature is selected.









57" Disassembly/Assembly Instructions

IMPORTANT POINTS:

- (a) Do not attempt to perform this work by yourself.
- (b) Request an installation specialist to install this unit.
- (c) **HITACHI** assumes no responsibility or liability for injury/damage as a result of consumer installation and handling. Be advised that improper consumer installation/handling is not covered by manufacturer's warranty.
- (d) This Projection Television weighs 205 pounds and has many sensitive components.

CAUTION: DISCONNECT UNIT FROM POWER SOURCE BEFORE DISASSEMBLY/ASSEMBLY

DISASSEMBLY PROCEDURE

NOTE: Read all instructions and understand how to properly and safely disassemble and assemble unit

STEP 1

Before disassembling this projection TV set, you must first remove the speaker grille by grabbing the sides and pulling left and right side see (a)(b). Remove the front decoration panels by unscrewing the 2 screws from each panel, see (c), then remove from the original position, see (d)(e).





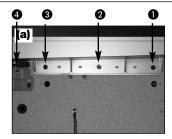


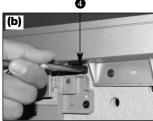




STEP 2

Remove 4 screws (1), 2, 3, 4) that hold the screen frame to the cabinet on the Right side, see (a) and (b). Repeat to remove 4 screws on the Left side.

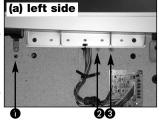


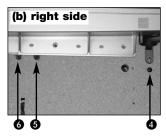


STEP 3

Please remove 3 screws (1), 2, 3) below screen frame that hold the back cover to the cabinet as the arrows shows, see (a).

Please remove 3 screws (4, 5, 6) below screen frame that hold the back cover to the cabinet as the arrows shows, see (b).





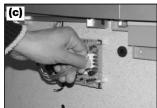
57" Disassembly/Assembly Instructions

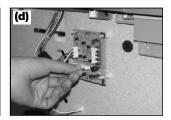
STEP 4

Remove the sensor box by unscrewing the 2 screws located on both sides of the sensor box, see (a). Rotate the sensor box and there are 4 low voltage connectors located on the sensor board, see (b). Disconnect the connector with the brown wires (PDSE), see (c) and (d). (Make sure to push the center lock on the connector at the unplug time.)









STEP 5

Remove the joint connector bolts from each side of the back cover using the allen wrench that is provided inside of the instruction bag, see (a) and (b).





STEP 6

Remove from the back side of the TV set only the top 4 screws of the lower rear cover, see (b), as shown by the arrows on the rear







cabinet label, see (a). Do not remove the rear cover board. Remove the (4) four side screws that hold the back cover to the cabinet, see (c) as shown on the label (a). Total of 8 screws will be removed.

STEP 7

CAUTION: When the TV is separated, the top portion weights 45 lbs. This task should be done by two persons when separating this TV.

This assembly contains fragile parts, such as glass and the viewing screen. Avoid any type of impact that could cause breakage of these components.

Remove top portion by grabbing the bottom corner of frame and the back cover, see (a)(b). Lift upwards, see (c)(d), gently place the top portion on the the floor, see (e).











57" Disassembly/Assembly Instructions

ASSEMBLY PROCEDURE

STEP 8

To re-assemble the set, lift the top portion and align onto the bottom cabinet. Gently lower the top portion until it sits flush on the bottom.



STEP 9

Re-install the joint connector bolts (4 pcs.) that were removed in step 5 of the disassembly.



STEP 10

Re-install the top (4) four screws into the lower rear cover, see (a). Re-install the (4) four side screws that hold the back cover to the cabinet, see (b).





STEP 11

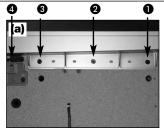
Re-connect the sensor connector to the sensor board, see (a). Re-install the sensor box, see (b).

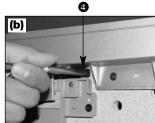




STEP 12

Re-install 4 screws (1), 2), 3), 4) that hold the screen frame to the cabinet on the Right side, see (a) and (b). Repeat to re-install 4 screws on the Left side.

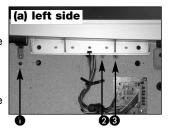


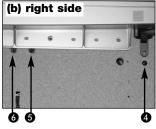


STEP 13

Please re-install 3 screws (1, 2, 3) below screen frame that hold the back cover to the cabinet as the arrows shows.

Please re-install 3 screws (4, 5, 6) below screen frame that hold the back cover to the cabinet as the arrows shows.





STEP 14

Re-install both of the front decoration panels, see (a) and (b). Re-install the speaker grille, aligning it with the bottom cabinet, see (c).







This completes the Disassembly and Assembly instructions.

Equipment Care and Troubleshooting

DO

Dust the screen and cabinet with a soft cloth.

Clean the screen with a soft cloth moistened in warm water and dry with a soft cloth. A mild soap may be used if the screen is extremely dirty.

Place your Television away from extreme heat, humidity, and extremely dusty places.

Remove the plug from the wall outlet if your Television will not be used for a long period of time, for instances, when you go on vacation.

DO NOT

Do not clean your screen or cabinet with strong cleaners, polishes or a chemically treated cloth.

Do not place rubber or vinyl products or cellophane tape on your Television.

Do not touch the screen too often.

Do not subject the remote control to shocks such as dropping it on the floor, etc. Physical damage to the precision parts may result.

Avoid placing the remote control or the Simple Remote Control in a high humidity place or getting it wet. Do not leave it on or near a heater. Excessive heat or moisture may cause the unit to cease operation.

When the batteries run down, remote control operation will become erratic or possibly stop altogether. Replace the old batteries with two new "AA" size batteries as soon as possible to preserve the remote control precodes that were set for the devices. Pressing a remote control button with a "DEAD" battery might erase all precodes in memory. Do not use an old battery with a new battery.

Exposure of the viewing screen to prolonged direct sunlight or heat may cause the screen to permanently warp, resulting in a distorted picture..

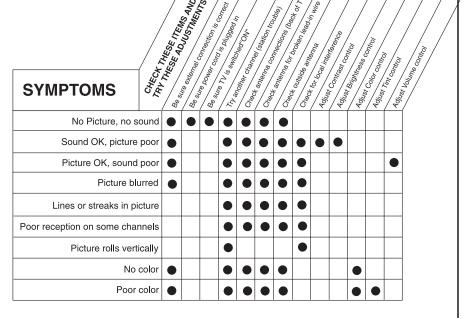
TROUBLESHOOTING

HITACHI Projection Television incorporates advanced power surge protection technology designed to protect against component or circuit damage due to external or internal voltage power surges.

IF YOUR TELEVISION SHOULD APPEAR TO HAVE A LOSS OF POWER, PLEASE FOLLOW THIS PROCEDURE:

- Press the POWER SWITCH (ON/OFF SWITCH) once.
- If there is still no power, wait 30 seconds and press the POWER SWITCH again.
- 3. If there is still no power, unplug the power cord from the wall. Wait 30 seconds and plug the power cord back in. Press the **POWER SWITCH** again.

This protective technology should provide for years of lasting entertainment from your **HITACHI** Projection Television.



Reception Problems



IGNITION NOISE:

Black spots or horizontal streaks may appear, picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps, electrical drills, and other electrical appliances.



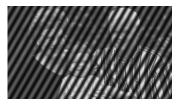
GHOSTS:

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected from tall buildings, hills or some other objects. Changing the direction or position of the antenna may improve reception. Ghosting may also be caused by defects in the antenna system such as unshielded leads or connecting several sets to the same antenna without using multiple antenna couplers.



SNOW:

If your receiver is located in the fringe area of a television station where the signal is weak, your picture may be marred by the appearance of small dots. When the signal is extremely weak, it may be necessary to install a special antenna to improve the picture.



RADIO FREQUENCY INTERFERENCE:

The interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.



BLOCK NOISE (DIGITAL INPUT):

Fuzzy blocks may appear in some area or the whole area of the screen. This is usually caused by interference from automobile ignition systems, neon lamps, electrical drills, ghosting of the image and weak signals.



BLACK SCREEN:

When using an antenna, weak signals will display a black screen. It may be necessary to upgrade your antenna.

NOTE: The TV set can generate sound distortion in external devices such as a radio. Please separate radio equipment from the TV set to a considerable distance.

Features and Specifications

FEATURES:

- Superfine Picture Quality; 1280 Line Horizontal Resolution
- Remote (Controls many PVR/VCR brands, cable boxes, satellite boxes, and other audio equipment).
- New Easy-to-Use (3-Language) On-Screen Menu
- Full Set of Input Jacks, including S-Video
- COMPONENT VIDEO: Y-PB/PR
- Velocity Modulation
- Six Aspect Modes
- Closed Caption Decoder
- 2-Tuner Picture in Picture
- Magic Focus (Auto Digital Convergence and 9point/117-point Manual Adjustment)
- 2 Antenna Inputs (Either for Analog/Digital)
- Video Input Sensor
- HDMI (High Definition Multimedia Interface) (High Bandwidth Digital Content Protection V1.1 compatible).
- Digital Audio Output (Dolby® Digital and PCM)
- 3 Dimensional Y/C Comb Filter
- Compatible with 1080i, 720p, 480p and 480i input signals.
- CableCARDTM compatible Contact your local cable operator for more information.
- **BBE** Technology.

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- **HDMI** Technology

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INPUTS:

•	Power InputAC	120V, 60Hz
•	Stand-by Power	0.4W

- Power Consumption Refer to rear panel at the back of the T.V.
- Antenna input impedance......75 Ohm
- Channel coverage

VHF-Band	2	-	13
UHF-Band	.14	_	69
CATV Band	.1 –	. 1	35

- Video1.0Vp-p, 75 Ohm
- S-Video

Luminance (Y)	1.0Vp-p, 75 Ohn	n
Chrominance (C)	0.286Vp-p, 75 Ohn	n

• Component Video

Luminance (Y)	.1.0Vp-p,	75	Ohm
Chrominance (PB/PR)	.0.7Vp-p,	75	Ohm

- Audio input Impedance......47k Ohm
- Average input level470mVrms
- HDMI.....HDMI 19 PIN

OUTPUTS:

- Video1.0Vp-p. 75 Ohm
- Audio (Fixed)470mVrms, 1k Ohm
- S-Video

Luminance (Y)	1.0Vp-p,	75	Ohm
Chrominance (C)	0.286Vp-p,	75	Ohm

Optical Out (Digital Audio)1 optical connector

DIMENSIONS:

51F710G	57F710G
50-3/8	54-9/16
1,279.0	1,385.6
48-3/4	54
1,239.0	1,372.0
21-7/8	23-5/8
557	599.4
187.4	205
85	93
	50-3/8 1,279.0 48-3/4 1,239.0 21-7/8 557 187.4

NOTE: Due to improvements, specifications in this operating guide are subject to change without notice.

Lip Sync. Notice

The on-screen motion of an actor's lips or other moving object may not be in sync with the associated audio heard from the TV's speakers. This is caused by timing differences in the broadcast signal or DVD content and is not caused by a defect in the television.

HITACHI Inspire the Next

Service Hotline

To locate an authorized **HITACHI** service facility in the continental U.S.A. and Canada,

DIAL TOLL FREE7 days a week, 24 hours a day

1-800-HITACHI

(1-800-448-2244)



HITACHI AMERICA, LTD. HOME ELECTRONICS DIVISION

HITACHI has made every effort to assure you hours of trouble free operation from your unit. However, should you require service, a network of HITACHI Authorized Service Facilities has been established in all 50 states and Puerto Rico. Each facility will provide you with convenient and expedient assistance. Our service hotline operator will direct you to the HITACHI Authorized Service Facility nearest you. Just present proof of purchase and/or delivery receipts to the Hitachi Authorized Service Facility, and service will be rendered in accordance with the terms of the limited warranty as stated on your warranty card or operating guide.

Should you have any questions regarding warranty, service, operation, or technical assistance, please contact:

Hitachi America, LTD. Home Electronics Division 900 Hitachi Way Chula Vista, CA 91914-3556

HITACHI CANADA, LTD. DIGITAL MEDIA DIVISION

Should you have any questions regarding warranty, service, operation, or technical assistance, please contact:

In Canada: 1-800-HITACHI (1-800-448-2244)

Monday - Friday (EST)	9:00am - 7:00pm
Saturday (EST)	9:00am - 5:00pm

Look for your French Manual on the outside of the box. If the manual is missing, call **1-800-HITACHI (1-800-448-2244)** for a copy.

Pour de plus amples renseignements sur le service durant la période couverte par la garantie, sur le fonctionnement ou pour de l'assistance technique communiquez avec:

Au Canada: 1-800-HITACHI (1-800-448-2244)

Lundi - Vendredi L'EST	9:00am –	- 7:00 _l	рm
Samedi L'EST	9:00am -	5:00	om

La version français de votre manual se trouve a l'exterieur de la boîte. Si le manuel est manquant, coposez le **1-800-HITACHI (1-800-448-2244)** pour obenir votre copie.

HITACHI CANADA, LTD. 2495 Meadowpine Blvd. Mississauga, Ontario L5N 6C3

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- TERMINATION. HITACHI may terminate this Agreement immediately at any time by providing notice to you.
- 11. GOVERNING LAW; SEVERABILITY. This Agreement will be governed by the laws of the State of New York, and you consent to the exclusive jurisdiction and venue in the federal courts sitting in the Southern District of New York, unless no federal subject matter jurisdiction exists, in which case you consent to the exclusive jurisdiction and venue in the Borough of Manhattan, New York, USA.

Appendix - Additional CableCARD Information

After the CableCARD has been successfully installed, a CableCARD Information menu appears in the **SETUP** menu of the On-Screen Display. Follow the instructions below to access the CableCARD Information menu.

- Press the MENU button on the Remote Control to access the Main Menu screen.
- 2. Press the **CURSOR** button ▼ to highlight **SETUP** in the Main Menu and press the **SELECT** button.
- Press the CURSOR button ▼ to highlight CableCARD INFORMATION and press the SELECT button.
- To view the CableCARD ID and Host ID, press the CURSOR button ▼ to highlight CableCARD Info and press the SELECT button.

NOTE: The **Diagnostics Info.** window is for Service use only.







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